M.O. Form 2373

DUPLICATE

THE DAILY WEATHER REPORT

BRITISH SECTION

1st January to 31st March

1939

METEOROLOGICAL OFFICE
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AIR MINISTRY, METEOROLOGICAL OFFICE,
LONDON, W.C.2

INTRODUCTION

The Daily Weather Report has been issued in three sections since April 1, 1919. The section of which this forms the Introduction is known as the " British Section."

NOTES REGARDING THE BRITISH SECTION.

Description of each issue :—The British section is issued daily by 12.30 p.m. (except that Sunday's issue is printed on Monday) and contains—

(*a*) On pp. 1 and 4 two tables of observations taken generally at 13h. and 18h. G.M.T. of " yesterday," and at 1h. and 7h. G.M.T. of " to-day " from about 45 stations in the British Isles, which regularly report to the Meteorological Office, and of the weather in the intervening intervals. These observations are telegraphed in a figure and letter code. The stations are arranged according to Forecast Districts as described at the foot of p. 2 of the report, and also on p. 4 of this Introduction. Whenever it is possible to do so without occupying too much space, the decoded values are set out in full in the table; in other cases, code figures are entered ; these are interpreted by reference first to the number printed at the head of the column, and then to the Explanation printed at the foot of pp. 1 and 4, where the column numbers are shown in connexion with each of the separate classes of observation.

(*b*) Observations made at nine London Stations during the 24 hours ending 7h. or 9h.

(*c*) Table of atmospheric pollution for " yesterday " for South Kensington and Kew Observatory.

(*d*) Observations for " yesterday evening " and " this morning " from five capital cities on the Continent of Europe.

(*e*) On p. 2, a table of weather reports from British health resorts for the previous day, arranged under forecast districts.

(*f*) A weather chart (scale 1 : 10,000,000) for the British Isles and the neighbouring parts of the Continent and of the Atlantic. An explanation of the chart is printed below it.

(*g*) A " general inference " drawn up by the forecaster from all the weather charts available. This inference sets out the meteorological changes in progress and the deductions to be drawn from them.

(*h*) Weather forecasts for the 24 hours commencing 12 noon of the day of issue for 20 districts into which the British Isles are divided.

(*i*) A " further outlook," i.e., an indication of the changes to be expected after the expiry of the term of the forecasts, if the meteorological conditions are such as to warrant the issue of such an extension.

(*j*) On p. 3, a weather chart for the greater part of the Northern Hemisphere, including the whole of Europe, part of N. Africa, the Northern part of the N. Atlantic, N. America and usually a part of Russia in Asia.

The observations presented on this chart are not synchronous, but as from 1st January, 1938, a change was made which gives approximately synchronous observations over a larger area than formerly.

Till the end of December, 1937, the chart could be divided into the following three sectors as regards hour of observation.

Sector.	Hour of Observation.
U.S.S.R. (approx. 170° E. to 30° E.)	7h. local time.
30° E. to 40° W.	6h. or 7h. G.M.T. (Azores 8h.).
40° W. to 170° W.	oh. or 1h G.M.T.

From January 1st, 1938, these have been reduced to the two sectors :—

Sector.	Hour of Observation.
U.S.S.R. (approx. 170° E. to 30° E.).	1h. local time.
30° E. to 170° W.	oh. or 1h. G.M.T.

The improvement in the charts effected by this change is most marked over mid-Atlantic. Previously a difference of six hours had existed between observations from ships on opposite sides of the lines of longitude 40° W.

The gain in one respect has meant a sacrifice in another. The network of land stations in Europe and Africa making observations at 1h. is not so close as that of stations observing at 7h. This is particularly notable in Scandinavia, the Balkans and North Africa.

In the case of Iceland entries of weather, temperature and wind do not now appear on the chart, but pressure values at 1h. G.M.T. are available and are used in drawing the isobars.

Wind :—The force of the wind is indicated in each issue of the Report by figures on the Beaufort Scale. The equivalents between numbers of the Beaufort Scale and the indications of an anemometer when exposed at a height of 30 to 40 feet above the ground are set out at the foot of p. 2 of each issue. Stations where such anemometers are installed determine their Beaufort numbers from their anemometers. At stations where anemometers are not in use, the force of the wind is estimated by means of the specification set out below. All wind directions are " true " or geographical, as distinguished from " magnetic."

Gale Warnings :—A note regarding the meaning of gale warnings and the method of indicating in the Report to what districts warnings may have been issued is also shown below.

THE INTERNATIONAL AND UPPER AIR SECTIONS.

The other two sections of the Daily Weather Report are Royal quarto in size.

The International Section contains 4 pp. per day and is issued daily by 3.30 p.m., but the issues for Saturday and Sunday are made on Monday. The " International Section " contains information received from the Continent of Europe, the Mediterranean Basin, Iceland and the Azores, and from ships on the Atlantic, arranged as follows :—

(*a*) Two weather maps (Scale 1 : 20,000,000) for Europe, the Mediterranean and Eastern Atlantic for 18h. yesterday and 7h. to-day.

(*b*) Two inset maps (Scale 1 : 20,000,000) for Northwest Europe for 13h. yesterday and 1h. to-day.

(*c*) Table of meteorological observations taken at about 80 stations, mostly on the Continent of Europe (not for the British Isles).

(*d*) Table of meteorological observations received by Wireless Telegraphy from Ships on the Northern Atlantic.

This section is very useful to one who wishes to trace the passage of various weather systems, since the 4 charts for each 24 hours enable the reader to follow the course of events in detail. From 1st March, 1933, the positions of well-defined warm, cold and occluded fronts have been indicated on the weather maps.

Upper Air Section :—The third section, called the " Upper Air Section " consists of 2 pp. Royal quarto per day and the issue for " yesterday " is published immediately prior to the issue of the British Section for " to-day." It contains maps, diagrams and tables showing upper air currents, pressures and temperatures over the British Isles and the Continent of Europe.

THE BEAUFORT SCALE OF WIND FORCE

Beaufort Number.	Admiral Beaufort's General Description of Wind.	Specification for use on Land, based on observations made at British Land Stations.	Limits of Mean Velocities Statute Miles per Hour as recorded by well exposed anemometers about 40 feet above ground.
0	Calm	Calm ; smoke rising vertically	Less than 1
1	Light air ...	Direction of wind shown by smoke drift	1–3
2	Slight breeze ...	Wind felt on face ; leaves rustle	4–7
3	Gentle breeze...	Leaves and small twigs in constant motion ; wind extends light flag	8–12
4	Moderate breeze	Raises dust and loose paper ; small branches are moved ...	13–18
5	Fresh breeze ...	Small trees in leaf begin to sway ; crested wavelets on inland waters...	19–24
6	Strong breeze...	Large branches in motion ; whistling heard in telegraph wires	25–31
7	Moderate gale...	Whole trees in motion ; inconvenience felt when walking against wind	32–38
8	Fresh gale ...	Breaks twigs off trees ; generally impedes progress ...	39–46
9	Strong gale ...	Slight structural damage occurs (chimney pots and slates removed)	47–54
10	Whole gale ...	Seldom experienced inland ; trees uprooted...	55–63
11	Storm	Very rarely experienced ; accompanied by widespread damage	64–75
12	Hurricane ...	... ...	Above 75

GALE WARNINGS

The Meteorological Office issues warnings to ports and fishing stations of gales on or near the coasts of the British Isles. When one of these notices has been received at a station a black canvas cone is hoisted. The Signals remain hoisted after the receipt of a warning telegram until danger of a gale is passed.

The *North Cone* (point upwards) is hoisted for gales commencing from a Northerly point.

For gales commencing from East or West the North Cone will be hoisted if the gale is expected to change to a Northerly direction.

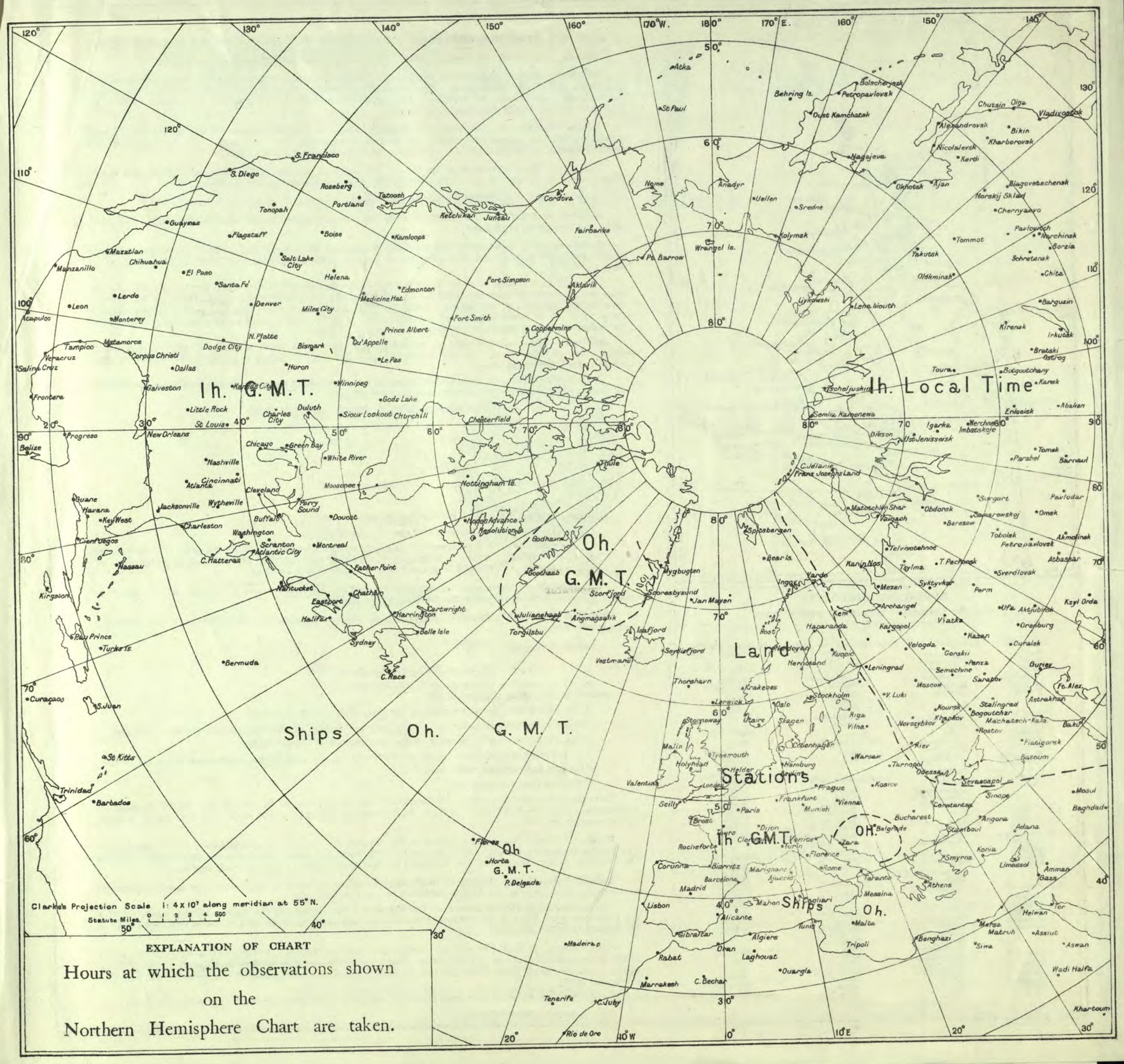
The *South Cone* (point downwards) is hoisted for gales commencing from a Southerly point. Such gales often veer, sometimes as far as Northwest.

For gales commencing from East or West the South Cone will be hoisted if the gale is expected to change to a Southerly direction.

The districts to which warnings are sent are shown in the Report by the following symbols written on page 2 against the forecast districts to which they apply :—

▲ North Cone hoisted : ▼ South Cone hoisted :

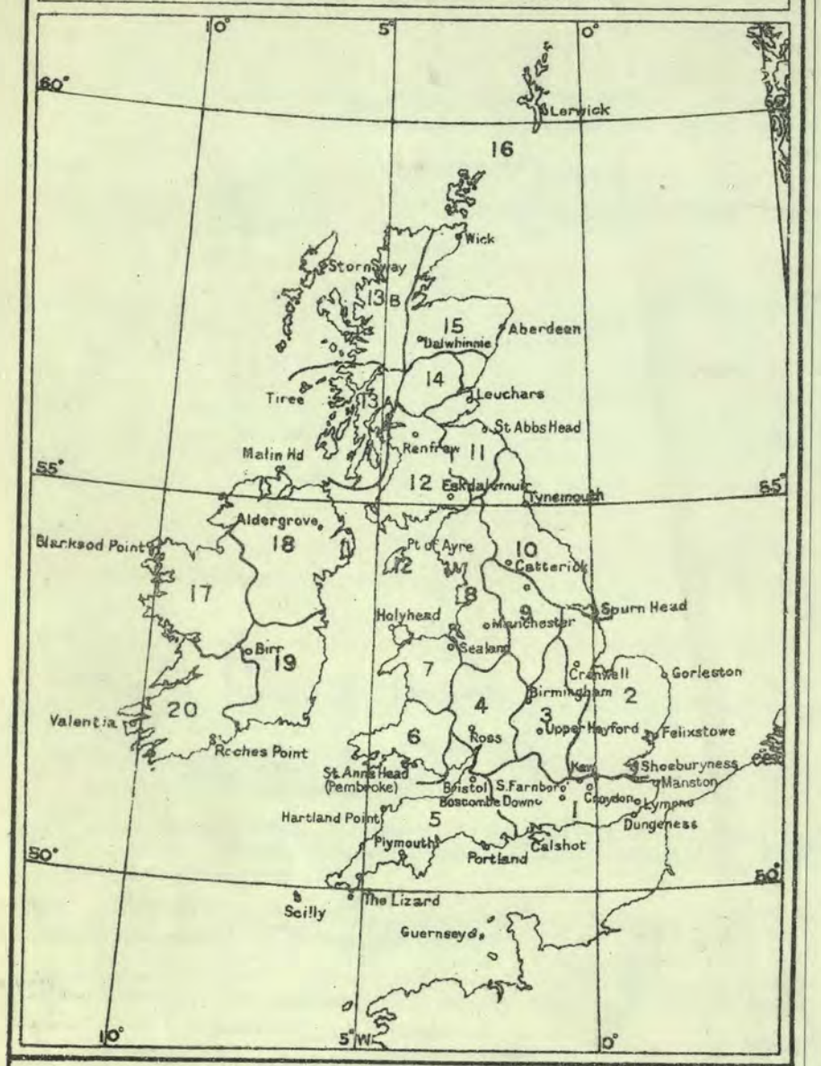
The time or times of issue of the gale warning telegrams is shown below the " further outlook " on page 2 of the Report.



EXPLANATION OF CHART

Hours at which the observations shown on the Northern Hemisphere Chart are taken.

FORECAST DISTRICTS AND STATIONS IN GREAT BRITAIN AND IRELAND



FORECAST DISTRICTS
and the Counties comprised within them

England, S.E.
Kent.
Sussex.
Surrey.
Hampshire.
Berkshire.
Wiltshire.

2. *England, E.*
Essex.
Middlesex.
Hertford.
Bedford.
Huntingdon.
Cambridge.
Suffolk.
Norfolk.
Lincoln.

3. *Midlands, E.*
Buckingham.
Oxford.
Northampton.
Warwick.
Leicester.
Rutland.
Nottingham.

4. *Midlands, W.*
Gloucester.
Hereford.
Worcester.
Shropshire.
Stafford.

5. *England, S.W*
Dorset.
Somerset.
Monmouth.
Devon.
Cornwall.

6. *Wales, S.*
Glamorgan.
Brecknock.
Carmarthen.
Pembroke.
Cardigan.
Radnor.

7. *Wales, N.*
Montgomery.
Merioneth.
Flint.
Denbigh.
Carnarvon.
Anglesey.

8. *England, N.W*
Cheshire.
Lancashire.
Westmorland
Cumberland

9. *Midlands, N.*
Derby.
Yorkshire, W.

10. *England, N.E.*
Yorkshire, N. & E.
Durham.
Northumberland.

11. *Scotland, S.E.*
Roxburgh.
Selkirk.
Peebles.
Berwick.
Haddington.
Edinburgh.
Linlithgow.
Clackmannan.
Kinross.
Fife.
Forfar.

12. *Scotland, S.W., and Isle of Man.*
Isle of Man.
Dumfries.
Kirkcudbright.
Wigtown.
Ayr.
Lanark.
Renfrew.
Dumbarton.
Stirling.

13A. *Scotland, W.*
Argyll.
Bute.

13B. *Scotland, N.W.*
Hebrides.
Western parts of Inverness, Ross and Cromarty, Sutherland.
(Boundary line runs from Rannoch Station through Fort Augustus, Beauly and Lairg to Melvich.)

14. *Mid Scotland.*
Perth.

15. *Scotland, N.E.*
Kincardine.
Aberdeen.
Banff.
Elgin.
Nairn.
Caithness.
Eastern parts of Inverness, Ross, Sutherland.

16. *Orkneys and Shetlands.*

17. *Ireland, N.W.*
Galway.
Roscommon.
Mayo.
Sligo.
Leitrim.

18. *Ireland, N.E.*
Meath.
West Meath.
Longford.
Cavan.
Fermanagh.
Monaghan.
Louth.
Armagh.
Down.
Antrim.
Londonderry.
Tyrone.
Donegal.

19. *Ireland, S.E.*
Waterford.
Wexford.
Kilkenny.
Carlow.
Wicklow.
Offaly.
Leix.
Kildare
Dublin.

20. *Ireland, S.W.*
Cork.
Kerry.
Limerick.
Tipperary.
Clare

NOTES ON THE INFORMATION CONTAINED IN THE DAILY WEATHER REPORT

Standard of Time.—Greenwich Mean Time is exclusively used throughout the Report.

Stations.—*Kew.*—Temperature readings at Kew are taken in a large louvred screen placed against the north wall of the observatory. The thermometer bulbs are at a height of 10 feet above the ground immediately surrounding the building. This ground is raised a few feet above the general level of the Old Deer Park in which the observatory stands.

London Observations.—As from 1st January, 1934, the rainfall measurements at all the London stations where rain gauges are maintained, refer to two periods, day and night. The day period at Kew and Croydon is 7h. to 18h. G.M.T.; at all other stations it is 9h. to 18h. G.M.T.

Valentia.—The observations at 1h. G.M.T. are taken at the Post Office Wireless Station on Valentia Island, those at all other hours at the Observatory near Cahirciveen on the mainland.

Point of Ayre.—The first observations are made at 0030 G.M.T. instead of at 0100 G.M.T.

Heights of Stations.—The heights of British Stations above M.S.L. refer to the plot of ground on which the rain gauge is situated.

Pressure.—The distribution of barometric pressure at Mean Sea Level is shown by means of isobars which are drawn for intervals of 2 millibars on page 2 of the Report and for intervals of 4 millibars on Page 3.

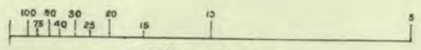
The wind at a height of 1,500–2,000 feet above ground usually blows *along* the isobars and, for the same temperature, pressure and latitude, the speed of the wind is inversely proportional to the distance between the isobars, *e.g.*, for isobars 1 inch apart for the chart on Page 2 the speed of the upper wind is about 12 m.p.h. in latitude 55°, with a temperature of 50° F. and a pressure of 1,015 mb; if, however, the isobars are ½ inch apart the corresponding speed is 24 m.p.h.

The scale below can be used to determine the theoretical wind as deduced from the pressure distribution on either chart. On the assumption that the path of the air is straight this theoretical wind is called the Geostrophic Wind.

If the distance between consecutive isobars is measured along the scale from the left-hand extremity the geostrophic wind is shown by the scale in miles per hour.

GEOSTROPHIC WIND SCALE FOR

8 mb isobars on $1 : 4 \times 10^7$ Charts.
or 2 mb ,, ,, $1 : 10^7$



Miles per hour.

This scale applies under the following conditions :—

Pressure, 1,015 mb. Temperature, 50° F. Latitude, 55°.

Corrections.—For an increase of 10 mb pressure, subtract 1% from velocity; for an increase of 10° F. add 2%. From Latitude 55° to Latitude 65° subtract 1% for each degree *above* 55°. From Latitude 55° to Latitude 45° add 1½% for each degree *below* 55°.

Temperature.—Temperature is specified in degrees Fahrenheit, and is shown on the charts by means of figures written alongside the positions of the stations.

Relative Humidity.—Relative Humidity at British stations is calculated from the following hygrometric formulæ :—

$$\text{Relative humidity} = \frac{100x}{F}$$

$x = f - \cdot 444\,(t - t')$ for wet bulb readings above 32° F.

$x = f - \cdot 400\,(t - t')$ for wet bulb readings below 32° F.

where x is the vapour pressure in mb.

F the saturation vapour pressure at the temperature of the dry bulb;

For air temperatures below 32° F. the value of F used is that appropriate to an ice surface.

f the saturation vapour pressure at the temperature of the wet bulb;

For wet bulb temperatures below 32° F. the value of f used is that appropriate to an ice surface.

t the dry bulb temperature; and

t' the wet bulb temperature

The entries in columns 7 and 21 are limited to 10, 25, 35, etc., to 85, 92 and 97. Entry 10 indicates that relative humidity is between 0 and 19 : 25, between 20 and 29 ;.....and so on ; 92, between 90 and 94 ; 97 between 95 and 100.

Wind.—All wind directions specified in the reports are "true," as distinguished from "magnetic." The arrows indicating wind direction are drawn to fly with the wind. Each feather denotes two steps on the Beaufort Scale; thus force 5 is indicated by two whole feathers and one half feather.

Adjusted Readings.—Where an instrumental reading is found to be in error and some adjustment is necessary, such adjusted reading is published in brackets thus (59).

The entries in the British Section of the Report for the stations in the main tables on pages 1 and 4 are compared with those in the returns received from the stations at the end of the month and errors in the Report so found are noted.

N.B.—Readers of the Report who are unacquainted with the method of construction and the use of weather charts are recommended to read "The Weather Map: An Introduction to Modern Meteorology," (2nd Edition, 1930), to be purchased from H.M. Stationery Office, York House, Kingsway, W.C.2, price 3s. 2d. post free. (Reprinted 1938.)

Corrections and additions can be obtained, if required, on application to the Meteorological Office.

H.M.S.O. Press, Cornwall House, S.E.1.

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DUPLICATE

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

MONTHLY SUPPLEMENT.

JANUARY 1939. No. 265

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Exceptionally wet; much wintry precipitation and severe gales.

Until 26th. the British Isles were under the influence of a continual succession of depressions. Subsequently pressure became high to the North and low to the South, and fairer easterly conditions prevailed until the end of the month. Gales were frequent and sometimes severe, especially between 14th and 16th, when during a south-westerly gale a gust of 83 m.p.h. was recorded at Pembroke on 15th. Again on 22nd and 23rd a severe north-westerly gale occurred in the Southwest and West, gusts of 94 m.p.h. at Scilly and 83 m.p.h. at Valentia were reported, and much damage was done to shipping. The passage of a depression from Southwest of Ireland along the English Channel caused a northerly gale in the West and considerable wintry precipitation in the South on 25th. An easterly gale occurred in the English and Bristol Channels on 29th.

Rainfall was almost everywhere above the average; amounts in East and Southeast England being twice the normal in a number of cases. Widespread and extensive floods were reported, especially in East Anglia and Thames Valley towards the end of the month. New high rainfall records were established at Lympne, Gorleston, Cranwell, Tynemouth and Birmingham, while the total at Ross-on-Wye was the highest since 1869.

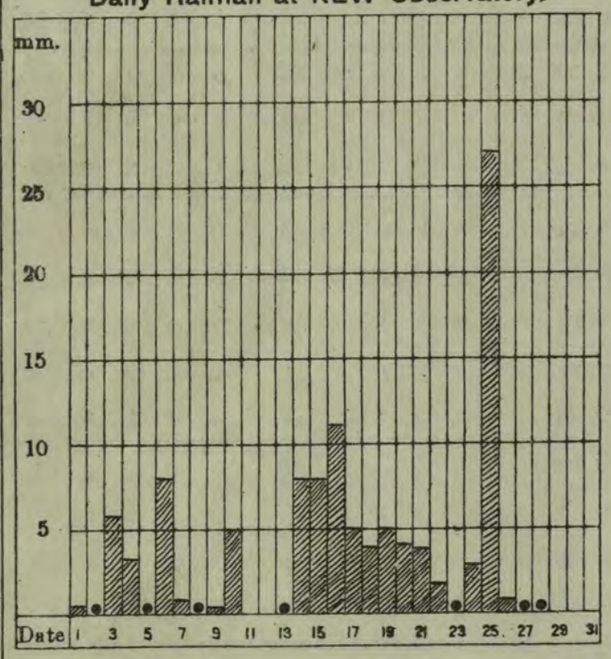
Snow, sleet and hail occurred generally during the first week and last 10 days of the month.

Widespread snowstorms were reported on 4th, and in the Midlands and North on 11th. On 25th and 26th the country again experienced heavy falls; some areas were completely isolated and road traffic and telephone services dislocated. Drifts of snow 12 feet were reported on high ground in Southwest England.

Some very low temperatures were recorded early in the North. On night of 3rd/4th minima of 1°F. and 13°F. were reported from Dalwhinnie and Eskdalemuir respectively, while on the following two nights temperatures of from 3°F. to 15°F. were recorded in parts of Scotland, Northern Ireland and Western England. From 7th to 24th temperature was generally higher, and in many places the maxima exceeded the average. A return of wintry conditions occurred on 25th and lasted until the end of the month.

Fog was prevalent from 4th to 7th, persisting in places in North and East England and Midlands. Fog also occurred locally from 12th to 14th, 18th to 21st and on several days at end of month. Thunderstorms occurred in Southwest England on 17th. Sunshine was, with very few exceptions below normal everywhere. Sealand with 33 hours reached a new low record

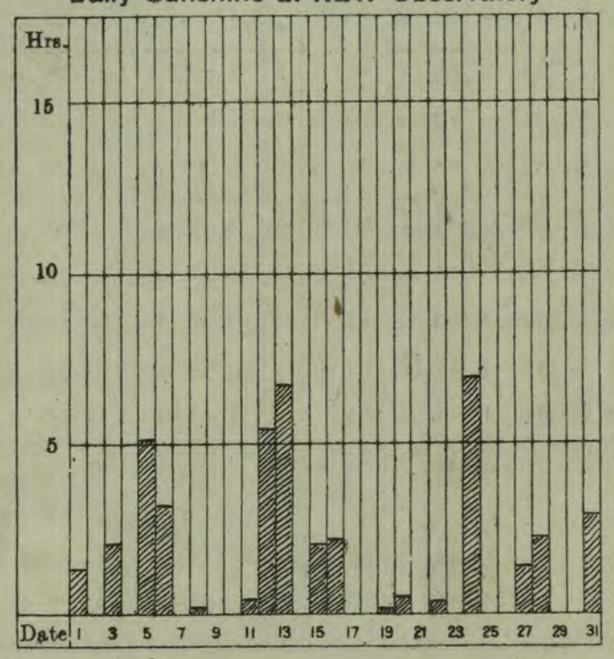
Daily Rainfall at KEW Observatory.



● = Less than 0·5 mm.

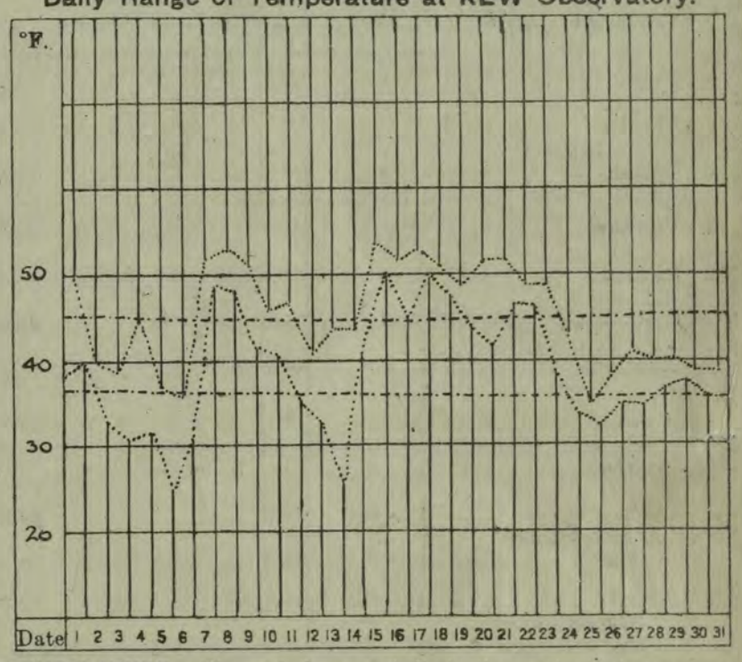
RAINFALL. Total for Month. 106 mm.

Daily Sunshine at KEW Observatory



SUNSHINE. Total for Month. 45 hrs.

Daily Range of Temperature at KEW Observatory.



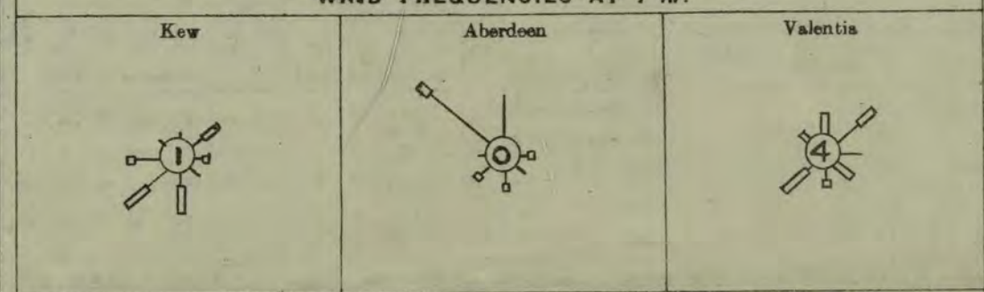
TEMPERATURE. The pecked curves indicate the maximum temperature recorded each day, and the minimum temperature each night throughout the month. The chain lines show normal values.

MEAN VALUES FOR THE MONTH.

STATIONS.	PRESSURE Mean	PRESSURE Difference from average	TEMPERATURE Mean	TEMPERATURE Difference from average
	mb.	mb.	°F.	°F.
Kew	1003·3	-14·3	42·1	+0·8
Aberdeen	1002·1	-9·1	37·3	-2·2
Valentia	1001·7	-13·3	43·5	-2·2

*Pressure—The mean is for the 24 hours. It is derived from values at 7 h. and 18 h. duly corrected.
Temperature—mean of Max. and Min.

WIND FREQUENCIES AT 7 hr.



Forces 1–3 —— ; forces 4–7 ═══ ; force 8 or above ▬ . Scale ; 10mm. to 10 observations.
The figure in the centre of the circle gives the number of calms.

"RUN" of WIND, or total displacement of air relative to the anemographs.

	miles.
Kew ...	9,005
Aberdeen ...	5,672
Lerwick ...	11,871
Valentia ...	12,172

SUMMARY OF RECORDS OF TEMPERATURE, LOW CLOUD, VISIBILITY,

District.	Stations.	† Temperature. Number of daily readings within fixed limits. Maximum. 32° or below	33°-41°	42°-50°	51°-59°	Average Maximum.	Minimum. 23° or below	24°-32°	33°-41°	42°-50°	51°-59°	Average Minimum.	Extremes—Warmest and Coldest. Days. Highest Max.	Date.	Lowest Max.	Date.	Nights. Highest Min.	Date.	Lowest Min.	Date.	Number of Ground Frosts.
						°F.						°F.	°F.		°F.		°F.		°F.		
1	London ... (Kew Obsy).	0	12	10	9	45.2	0	5	14	12	0	37.5	54	15	35	25	50	16, 18	25	6	11
	Croydon ...	0	11	11	9	44.9	0	9	9	13	0	37.1	54	8, 17	34	25	49	8, 16, 18	24	6	9
	Calshot** ... (Southampton)	0	7	15	9	46.1	0	5	14	12	0	38.4	53	15, 17	39	5	49	18	27	6	8
	Lympne ...	0	12	17	2	43.4	0	6	12	13	0	35.9	52	15	35	31	48	18	26	6	9
2	Shoeburyness ...	0	8	18	5	45.2	0	6	15	10	0	35.4	55	15	38	5	48	16	24	14	11
	Gorleston ...	0	13	12	6	44.3	0	6	14	11	0	36.8	54	15	35	6	46	9	26	6	6
	Cranwell ...	1	14	11	5	43.3	0	11	11	9	0	34.7	53	8	32	5	48	9	24	6	14
3	Birmingham ... (Edgbaston)	2	14	12	3	43.2	0	10	12	9	0	36.0	53	8	32	4, 25	48	8, 9	26	5	11
4	Ross-on-Wye ...	0	13	10	8	45.5	1	5	17	7	1	37.2	55	14	33	25	51	8	21	6	10
5	The Lizard ...	0	1	17	13	*	0	0	15	16	0	*	53	8, 14, 17, 22	41	26	50	8	34	5, 12	*
7	Holyhead ...	0	9	17	5	46.4	0	1	19	11	0	41.6	52	9, 20	39	4	50	8	31	6	2
8	Chester ... (Sealand)	1	15	9	6	46.0	2	5	16	7	1	36.9	56	8	31	6	54	8	14	6	14
10	Tynemouth ...	1	10	17	3	44.1	0	10	12	9	0	37.3	53	8	32	5	44	16, 19	27	4	11
11	Leuchars ...	2	15	14	0	43.4	2	8	19	2	0	34.4	49	15	29	6	42	19, 20	20	4	21
12	Renfrew ...	1	17	13	0	43.6	4	11	13	3	0	35.3	50	16	31	6	43	9, 17	18	4	19
	Eskdalemuir ...	4	15	12	0	40.7	7	10	13	1	0	32.4	46	17	30	6	43	17	13	4	18
13B	Stornoway	0	16	15	0	44.6	0	8	18	5	0	37.8	49	8	33	3	45	20, 21	28	6	*
15	Aberdeen ..	2	16	13	0	43.1	2	8	20	1	0	35.8	49	8, 15	31	4	43	20	22	4	14
18	Aldergrove ...	1	12	17	1	*	2	14	11	4	0	*	53	7	30	5	46	17	14	5	17
19	Dublin ... (Phœnix Park)					46.9						35.4									
	Birr Castle ...	0	14	14	3	46.4	1	13	10	7	0	37.4	56	7	33	5	49	8	22	5	16
20	Valentia ... (Cahirciveen)	0	4	17	10	49.0	0	2	17	10	2	42.3	55	7	40	29	53	7	30	5	8

District.	Stations.	Low Cloud. Number of observations within fixed limits. 7 h. Below 1,000 ft.	1,000–5,000 ft.	5,000–8,000 ft.	13 h. Below 1,000 ft.	1,000–5,000 ft.	5,000–8,000 ft.	18 h. Below 1,000 ft.	1,000–5,000 ft.	5,000–8,000 ft.	Fog, Mist and Good Visibility. Number of observations within fixed limits. 7 h. Dense fog.	Thick fog.	Fog.	Mist.	Good Visibility.	13 h. Dense fog.	Thick fog.	Fog.	Mist.	Good Visibility.
1	London ... (Kew Obsy).	2	27	0	6	23	0	1	22	0	0	1	0	0	12	0	0	3	3	3
	Croydon ...	8	18	1	8	20	1	5	21	0	0	0	0	3	14	0	0	4	4	3
	Calshot** ... (Southampton)	7	19	0	9	20	0	6	17	1	0	0	1	0	20	0	0	0	1	14
	Lympne ...	9	17	2	9	18	1	10	14	0	0	0	2	0	12	0	1	1	0	13
2	Shoeburyness ...	3	22	0	5	21	0	2	18	1	0	1	0	1	20	0	0	0	3	16
	Gorleston ...	4	24	0	2	26	1	3	22	0	0	0	1	1	13	0	0	1	1	5
	Cranwell ...	12	16	0	10	16	0	7	17	0	0	1	4	3	11	0	0	2	8	10
3	Birmingham ... (Edgbaston)	10	15	0	8	19	0	6	19	0	0	1	0	3	14	0	0	6	6	7
4	Ross-on-Wye ...	3	27	0	5	25	0	6	23	0	0	1	0	2	17	0	1	2	0	18
5	The Lizard ...	1	30	0	0	31	0	1	30	0	0	0	1	0	22	0	0	0	0	24
7	Holyhead ...	6	24	0	5	25	0	5	24	0	0	0	0	0	25	0	0	0	0	26
8	Chester ... (Sealand)	2	23	1	5	23	1	7	19	0	0	1	3	0	14	0	0	2	8	13
10	Tynemouth ...	6	24	0	3	28	0	8	23	0	0	0	1	0	18	0	0	3	3	9
11	Leuchars ...	9	18	0	1	23	0	5	20	0	0	0	0	1	21	0	0	1	0	23
12	Renfrew ...	5	23	0	5	20	1	2	24	1	0	2	1	3	13	0	0	5	3	15
	Eskdalemuir ...	14	13	0	14	14	1	17	13	1	0	0	0	2	12	0	0	0	1	20
13B	Stornoway	0	31	0	0	28	1	0	30	0	0	0	0	0	27	0	0	0	0	29
15	Aberdeen ..	12	17	0	12	14	0	9	18	0	0	0	1	0	15	0	0	2	4	15
18	Aldergrove ...	5	20	1	7	20	1	6	22	0	0	0	0	0	24	0	0	0	0	20
19	Dublin ... (Phœnix Park)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birr Castle ...	6	19	0	6	24	0	9	19	0	0	0	1	0	30	0	0	0	0	31
20	Valentia ... (Cahirciveen)	4	24	0	4	27	0	5	26	0	0	0	0	0	20	0	0	0	0	25

UPPER AIR TEMPERATURE.

Pressure. mb.	Normal Height. Feet.	Normal Temperature. °F.	Mildenhall. Mean. °F.	No. of Reports.	Aldergrove. Mean. °F.	No. of Reports.	Mean. °F.	No. of Reports.
950	1,800	38.3	37.5	44	38.0	46		
850	4,690	30.7	28.3	44	28.4	46		
750	7,910	21.4	20.2	44	18.6	46		
650	11,510	9.4	9.3	44	8.0	46		
550	15,620	-5.8	-5.3	44	-6.8	46		

UPPER WINDS.

No. of records of Velocity (km./hr.) within fixed limits.

Station Height. Metres.	Lympne. *No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Plymouth (Mt. Batten). *No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Holyhead. *No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Renfrew. *No. of Obs.	6 to 25	26 to 50	51 to 75	76 to 100	Above 100	Station. Height. Metres.
		kilometres per hour.						kilometres per hour.						kilometres per hour.						kilometres per hour.					
500 above ground.	67	11	31	21	2	0	41	8	21	8	2	0	61	17	24	15	4	1	56	17	26	12	1	0	500 above ground.
1000 above M.S.L.	37	7	21	7	1	0	21	7	10	2	1	0	40	13	20	6	1	0	42	10	17	13	2	0	1000 above M.S.L.
2000 " "	13	3	9	1	0	0	8	4	0	4	0	0	15	7	8	0	0	0	25	5	15	5	0	0	2000 " "
3000 " "	9	0	5	4	0	0	4	1	3	0	0	0	5	1	3	1	0	0	17	2	11	4	0	0	3000 " "
4000 " "	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	2	0	0	5	1	3	0	1	0	4000 " "

† The readings and averages used, are, except in the case of Phœnix Park, the maximum for the period 7 h.–18 h., and the minimum for the period 18 h.–7 h. The readings and averages for Phœnix Park are for daily periods ending 21 h. Averages are for periods of at least 10 years (See M.O.364).

* Winds of 0—5 km./hr. are included in the number of observations.

METEOROLOGICAL OFFICE. AIR MINISTRY. KINGSWAY. LONDON. W.C.2.

N. K. JOHNSON M.Sc., A.R.C.S, Director.

SUNSHINE, RAINFALL, AND HUMIDITY JANUARY 1939.

District.	Stations.	Sunshine: Number of Days with Duration: Nil.	0·1—3h.	3·1—6h.	6·1—9h.	Above 9h.	Maximum Duration: Hours.	Date.	Total for past 12 months. Hours.	Difference from average. Hours.	Total for Month. Hours.	Difference from average. Hours.	Highest and Lowest Totals on record for Month: First year of record.	Highest. Hrs.	Year.	Lowest. Hrs.	Year.	Rainfall: ‡Number of days with amount: 0, trace or 0·1 mm.	0·2—1 mm.	1·1—5 mm.	5·1—15 mm.	15·1—25 mm.	Above 25 mm.	Maximum fall in 24 hrs. mm.	Date.	Total for past 12 months. mm.	Difference from Average. mm.	Total for Month.‡ mm.	Difference from Average. mm.	Highest and Lowest Totals on record for Month: First year of record.	Highest. mm.	Year.	Lowest. mm.	Year.	Days with Thunder.	Days with Snow or Sleet.
1	London ... (Kew Obsy).	14	11	4	2	0	7.0	24	1459	-10	45	+1	1880	74	'91 '05	16	'85	9	7	8	6	0	1	26	25	511	-95	106	+61	1856	124	'77	11	'92	0	2
	Croydon ...	14	12	3	2	0	7.1	13	1436	-89	44	-4	1922	67	'27	25	'35	10	1	12	6	2	0	22	15	671	-8	129	+77	1921	137	'37	29	'29 '35	0	6
	Calshot** ... (Southampton)	9	15	4	3	0	7.1	12	1640	-106	57	-8	1881	93	'91	19	'85	12	4	4	11	0	0	15	25	558	-88	109	+57	1871	207	'06	14	'98	0	3
	Lympne ...	13	9	6	3	0	7.1	24	1748	-17	52	-6	1921	77	'23	37	'36	7	4	13	6	0	1	30	25	720	-4	124	+68	1920	122	'37	30	'29	0	4
2	Shoeburyness ...	14	11	4	2	0	6.7	24	1605	-111	51	-6	1919	77	'23	38	'29	11	4	11	4	0	1	27	25	446	-57	87	+53	1920	93	'37	23	'32	0	5
	Gorleston ...	14	10	7	0	0	6.0	3	1543	-100	44	-12	1908	84	'10	27	'15	10	6	5	7	2	1	33	25	553	-69	142	+98	1871	123	'22	3	'80	1	5
	Cranwell ...	15	8	7	1	0	6.1	24	1427	-111	51	-4	1921	69	'32	37	'29	10	6	9	5	1	0	20	25	659	+69	95	+51	1917	84	'36	18	'32	0	9
3	Birmingham ... (Edgbaston)	20	9	2	0	0	4.4	13 24	1234	-70	22	-22	1887	73	'05	8	'17	9	3	9	6	4	0	18	6 25	757	+83	148	+97	1893	126	'30	21	'08	1	6
4	Ross-on-Wye ...	12	14	4	1	0	7.3	13	1439	-46	43	-12	1915	91	'33	34	'21	11	4	6	8	2	0	21	25	646	-71	144	+82	1859	156	'69	7	'98	0	5
5	Falmouth ... (Observatory)	8	15	8	0	0	5.9	11	1602	-108	51	-9	1881	87	'95	22	'84	6	4	7	11	2	1	27	24	1028	-79	202	+95	1871	246	'75	25	'80	0	1
7	Holyhead ..	10	16	4	1	0	7.2	31	1520	-30	43	-8	1914	102	'33	29	'14	10	1	10	7	3	0	23	17	1018	+131	153	+79	1871	190	'77	19	'80	0	3
8	Chester ... (Sealand)	18	11	2	0	0	5.6	24	1378	+2	33	-20	1923	71	'33	37	'29	7	2	12	10	0	0	13	17	712	+51	121	+71	1922	155	'36	31	'29	0	5
10	Tynemouth ...	15	10	6	0	0	5.9	24	1285	*	44	*	1935	*	*	*	*	7	8	7	8	1	0	18	11	673	+52	107	+66	1915	98	'21	15	'32	0	4
11	Leuchars ...	12	13	3	3	0	7.0	24	1419	-51	51	-7	1922	84	'31	32	'26	10	6	9	5	1	0	23	14	756	+103	106	+60	1922	124	'28	22	'29	0	7
12	Renfrew ...	14	10	7	0	0	5.6	24	1263	+70	46	+12	1921	49	'31	19	'25	12	4	8	5	1	1	26	14	1203	+264	114	+29	1921	241	'28	42	'29	0	6
	Eskdalemuir ...	14	14	2	1	0	6.5	10	1145	-56	38	+3	1910	56	'31	12	'13	10	5	9	2	4	1	37	8	1913	+484	171	+34	1910	394	'28	56	'29	0	11
13B	Stornoway	8	14	6	3	0	8.4	30	1191	-24	61	+34	1881	51	'83	12	'07	6	4	14	7	0	0	15	6 15	1303	+37	123	-8	1870	373	'72	33	'81	0	7
15	Aberdeen ...	10	15	6	0	0	5.9	10	1312	-17	42	-5	1881	85	'81	15	'85	6	7	12	6	0	0	15	14	786	+38	95	+40	1871	125	'37	16	'05	0	6
18	Aldergrove ...	11	13	3	4	0	6.7	13	1263	*	63	*	1927	64	'28	27	'38	9	2	14	6	0	0	13	15	918	+80	91	+21	1926	130	'28	31	'35	0	6
19	Dublin ... (Phœnix Park)												1881	91	'91	21	'14													1865	103	'30	8	'76		
	Birr Castle ...	12	12	7	0	0	5.7	23	1203	-103	42	-7	1881	91	'97	24	'84	14	3	7	4	2	1	28	8	1096	+269	128	+56	1862	148	'90	17	'81	0	4
20	Valentia ... (Cahirciveen)	14	11	6	0	0	5.4	26	1309	-59	42	-2	1880	128	'81	16	'98	7	4	5	13	2	0	25	14	1560	+146	183	+44	1866	296	'37	27	'35	1	2

MINIMUM SURFACE HUMIDITY.

No. of Days (Mdt. to Mdt.) with Minima between Fixed Limits.

Stations.	95 to 100 %	90 to 94 %	80 to 89 %	70 to 79 %	60 to 69 %	50 to 59 %	40 to 49 %	30 to 39 %	20 to 29 %	0 to 19 %
London (Kew)	0	0	10	8	9	4	0	0	0	0
Ross-on-Wye ...	0	0	4	12	12	3	0	0	0	0
Falmouth (Obsy.)	2	7	16	6	0	0	0	0	0	0
Renfrew ...	0	2	12	15	2	0	0	0	0	0
Eskdalemuir ...	0	2	13	11	5	0	0	0	0	0
Aberdeen ...	1	2	9	13	6	0	0	0	0	0
Valentia ...	0	2	6	11	10	1	1	0	0	0

STATE OF GROUND AT 18 h.

No. of Days each type was recorded.

Stations.	0	1	2	3	4	5	6	7	8	9
London (Kew)	0	29	0	1	0	0	1	0	0	0
Ross-on-Wye	0	26	0	0	4	0	0	1	0	0
Renfrew ...	0	20	2	6	1	1	0	1	0	0
Eskdalemuir	0	14	1	6	2	0	2	1	5	0
Aberdeen ...	0	21	0	3	6	0	0	1	0	0
Valentia ...	3	28	0	0	0	0	0	0	0	0

CODE for State of Ground.

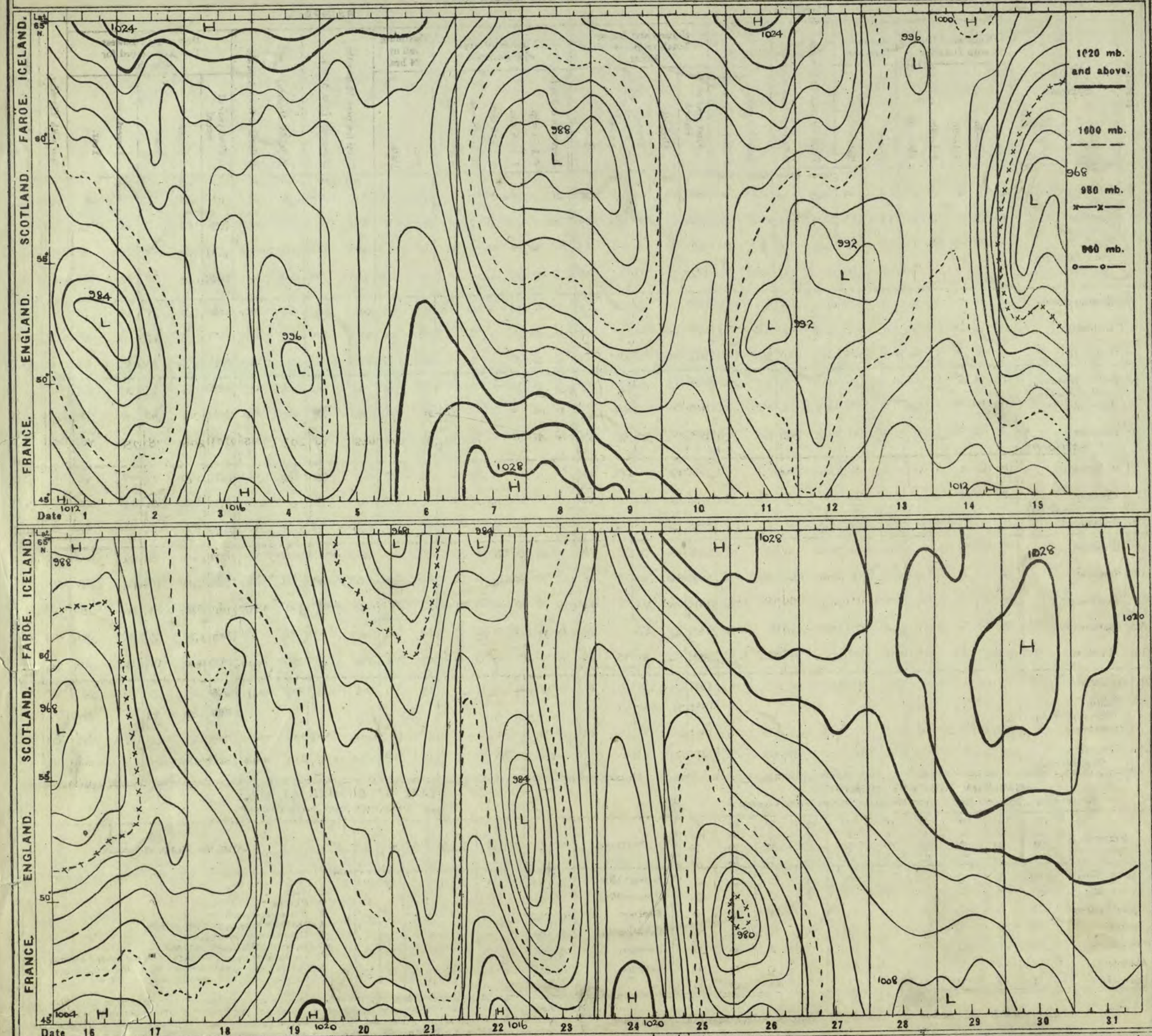
0 Dry.
1 Wet.
2 Flooded.
3 Frozen hard and dry.
4 Partly covered with snow or hail.
5 Covered with ice or glazed frost.
6 Covered with thawing snow.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow, greater than 6 ins. deep.

** The extremes of rainfall and sunshine from Calshot are supplemented by those from Southampton.

‡ Based in part on reports made by telegraph in which the day and night measurements are rounded off to the nearest whole millimetre. Small discrepancies may arise between these totals and those given in the Monthly Weather Report which are based on readings taken to 0·1 mm.

PRESSURE: ICELAND TO GULF OF LIONS JANUARY 1939.

ISOPLETHS BASED ON SIX-HOURLY OBSERVATIONS.



* The diagram is obtained by drawing a line from Akureyri in Iceland to the south of France near Marseilles. The points at which the isobars drawn for 4 mb. pressure intervals intersect this line at 1h., 7h., 13h., and 18h. are plotted consecutively and joined to shew the variation of pressure from day to day at any point in the line. The line terminates at Lat. 66° N., Long. 18° W., in the north; at Lat. 44½° N., Long. 4° E., in the south.

H.M. Stationery Office Press, Kingsway W.C.2.

G.700/3641. Wt. 8083. D-3774. 6p. 948. 1210. 1/39

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 1st January, 1939

No. 28164

OBSERVATIONS at 13h. G.M.T. 31st December

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1006·2	+6	W	3	zo	41	75	6	1	3	-	Tr	1	2500
	Croydon	1006·4	+4	W'S	4	zo	43	75	6	4	4	-	1	1	2500
	S. Farnborough	1006·5	+2	W	3	b	43	65	8	-	3	-	0	1	-
	Boscombe Down	1007·2	+2	W	2	c	41	75	8	-	7	-	0	9+	-
	Calshot (Sthmtn.)	1007·9	+2	W	3	c	43	75	8	-	7	-	0	7-8	-
	Lympne	1007·0	+10	W'N	4	b	40	65	6	-	-	-	0	0	-
	Manston	1005·2	+10	W	4	zo	39	75	5	-	-	-	0	0	-
2	Shoeburyness	1005·9	+8	W	4	ir	41	75	4	5	-	-	2-3	2-3	800
	Felixstowe	1004·1	+8	W	4	b	38	75	8	1	-	-	Tr	Tr	4000
	Corleston	1002·9	+16	NW'N	4	bc	37	75	6	1	3	-	1	2-3	2500
	Mildenhall	1004·1	+6	N	4	zo	38	85	6	-	4	-	0	Tr	-
	Cranwell	1004·0	+12	W	2	zo	36	85	5	-	4	6	0	9	-
3	Birmingham	1005·6	+4	W	2	bc	38	85	5	-	3	-	0	2-3	-
	Upper Heyford	1006·1	+4	W'N	3	bc	40	75	8	-	3	-	0	2-3	-
4	Ross-on-Wye	1005·7	0	W'S	2	c	43	75	8	6	7	-	1	9	2500
5	Hartland Point	1007·0	-4	WNW	4	iro	43	85	7	5	2	-	9	10	1500
	Bristol	1006·8	0	W	3	c	42	75	7	5	7	-	4-6	7-8	5700
	Portland Bill	1007·4	+4	W	4	o	44	92	7	5	-	-	10	10	2500
	Plymouth	1008·2	-6	W	1	iro	45	85	6	6	2	-	4-6	10	1500
	The Lizard	1007·7	-12	W'S	5	c	49	97	8	8	2	-	7-8	7-8	2500
	Scilly (St. Mary's)	1007·8	-16	W	6	cjp	51	92	8	8	7	3	4-6	9	1500
	Guernsey	1009·4	-2	WNW	1	rr	44	97	4	5	-	-	10	10	800
6	Pembroke	1006·2	-2	W'S	4	ir	45	92	7	5	-	-	9+	9+	1500
7	Holyhead	1004·0	-2	WNW	3	c	42	75	8	8	7	-	7-8	9+	2500
	Chester (Sealand)	1004·6	-2	WSW	3	bc	43	75	8	2	3	-	1	4-6	2500
8	Manchester	1004·5	+10	NW	1	m	40	85	4	2	4	6	2-3	4-6	2500
10	Spurn Head	1002·3	+10	WNW	5	bc	37	85	6	-	-	5	0	2-3	-
	Catterick	1003·0	+10	W'N	2	bc	37	65	9	-	3	4	0	2-3	-
	Tynemouth	1001·8	+6	W	3	bc	35	75	6	2	-	-	2-3	2-3	2500
11	St. Abbs Head	999·6	+2	W	5	bc	37	55	8	4	4	-	Tr	2-3	4000
	Leuchars	999·7	+2	W	3	b	38	65	8	-	4	-	0	Tr	-
12	Renfrew (Abbots I.)	1001·8	+2	-	0	bc/ps	35	85	7	8	3	4	2-3	4-6	2500
	Eskdalemuir	1002·5	+6	WSW	3	bc	31	75	8	-	-	6	0	2-3	-
	Point of Ayre	1002·9	+4	WNW	3	c	42	83	8	2	7	3	1	9	2500
13A	Tiree	999·5	-2	W'S	3	c	41	85	8	8	7	2	4-6	7-8	1600
13B	Stornoway	997·8	+2	WNW	1	bc	34	92	8	6	7	-	4-6	4-6	4000
15	Dalwhinnie	1000·0	0	S	2	bc	32	97	7	4	6	1	2-3	2-3	2500
	Aberdeen	998·5	+2	W	1	b	37	75	6	7	4	-	Tr	Tr	2500
	Wick	996·9	+4	WSW	4	bc	33	92	8	4	7	-	2-3	4-6	2500
16	Lerwick	991·9	+6	SW	3	c/rs	38	92	8	8	7	1	4-6	7-8	1500
17	Blacksod Point	1003·0	-10	-	0	dodo	40	97	8	6	-	-	10	10	<150
18	Malin Head	1001·6	-8	SW	2	c	37	85	8	5	-	4	2-3	7-8	5700
	Aldergrove	1003·1	-6	SW	2	cf	34	97	2	5	-	-	9+	9+	1500
19	Birr Castle	1004·1	-8	SSW	1	ir	40	97	7	6	2	-	4-6	10	800
20	Valentia Obsy. †	1003·9	-26	WSW	4	dr	51	92	7	5	-	-	10	10	800
	Roches Point	1005·4	-16	S'E	3	DD	54	97	4	5	-	-	10	10	120

OBSERVATIONS at 18h. G.M.T. 31st December

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1006·5	+6	SSW	2	zo	39	85	5	5	-	-	10	10	1500	1	*
Croydon	1007·2	+2	S'W	2	zo	38	92	5	6	7	-	Tr	10	2500	1	*
S. Farnborough	1007·2	0	SE'S	1	m	38	92	4	-	2	-	0	10	-	1	*
Boscombe Down	1007·0	-2	S'W	2	rr	38	97	6	6	1	-	4-6	10	1500	1	*
Calshot (Sthmtn.)	1008·1	+2	SW'W	2	roro	41	92	6	5	1	-	4-6	10	1500	1	1
Lympne	1008·6	+6	NW'N	1	zo	36	75	5	5	7	-	2-3	10	4000	1	§ 3
Manston	1007·3	+12	W	2	zo	35	85	5	-	3	-	0	9+	-	1	*
Shoeburyness	1007·3	+8	WSW	2	c	37	85	5	5	-	-	9+	9+	2500	1	*
Felixstowe	1006·5	+8	W	3	zo	35	85	6	-	3	-	0	4-6	-	1	3
Corleston	1006·5	+18	W	2	bc	33	85	5	5	-	6	2-3	4-6	2500	3	2
Mildenhall	1006·0	+6	SSW	2	zo	33	97	5	5	3	-	4-6	4-6	5700	3	*
Cranwell	1005·2	+6	W	1	m	34	92	4	5	-	-	10	10	1500	1	*
Birmingham	1005·8	0	SSW	2	c	36	85	5	-	7	-	0	10	-	6	*
Upper Heyford	1006·6	+2	-	0	c	36	92	7	5	2	-	4-6	10	1500	4	*
Ross-on-Wye	1005·5	-4	SW	2	ido	40	85	6	-	2	-	10	10	1500	1	*
Hartland Point	1004·1	-18	WSW	3	dd	45	97	6	5	1	-	2-3	10	800	1	2
Bristol	1006·4	0	SW	1	roro	40	92	7	5	2	-	4-6	10	1500	1	*
Portland Bill	1006·9	-4	SW	3	rr	44	92	7	5	-	-	10	10	1500	1	3
Plymouth	1006·8	-10	E'N	1	ojf	43	97	5	5	-	-	10	10	450	1	1
The Lizard	1006·3	-4	W'S	5	c	49	97	8	8	1	-	7-8	7-8	2500	1	2
Scilly (St. Mary's)	1006·0	-12	WSW	4	c/d	50	92	7	5	-	-	9+	9+	1500	1	3
Guernsey	1007·5	-12	W	4	c	49	97	7	8	-	-	7-8	7-8	2500	1	3
Pembroke	1003·0	-14	S'E	5	dd	45	97	6	5	-	-	10	10	1500	1	3
Holyhead	1002·4	-8	SW'W	3	roro	40	85	8	6	1	-	4-6	10	1500	1	1
Chester (Sealand)	1004·1	-6	SE	1	zo	38	85	6	5	1	-	2-3	10	2500	1	*
Manchester	1004·2	-2	SSE	2	m	37	85	4	5	-	-	10	10	4000	1	*
Spurn Head	1004·5	+6	W	2	bc	33	92	6	-	4	5	0	4-6	-	0	2
Catterick	1003·5	+2	S	2	bc	32	65	8	-	-	2	0	4-6	-	3	*
Tynemouth	1002·3	+4	WSW	3	c	34	75	5	5	-	-	7-8	7-8	2500	3	2
St. Abbs Head	1000·4	0	SW	4	c	32	75	8	4	1	-	4-6	7-8	2500	0	3
Leuchars	1000·2	+2	SW	1	c	32	85	6	1	7	7	0	9+	..	3	*
Renfrew (Abbots I.)	1001·0	-2	-	0	m	35	97	4	5	7	-	9	10	1500	3	*
Eskdalemuir	1002·3	-6	-	0	c	26	85	8	-	1	6	0	9+	-	8	*
Point of Ayre	1001·6	-8	SSW	2	c	39	85	8	2	1	-	1	9+	2500	0	1
Tiree	998·1	-6	SE'S	1	c	36	97	8	8	7	-	4-6	7-8	1500	0	2
Stornoway	997·6	0	-	0	bc	31	85	8	8	3	-	2-3	4-6	4000	7	0
Dalwhinnie	*	-2	SW	3	c	30	97	7	4	6	5	4-6	9+	2500	7	*
Aberdeen	999·1	+4	-	0	bc	33	75	6	-	-	6	0	2-3	-	3	1
Wick	997·1	+8	SW	3	bc	31	92	8	5	4	-	2-3	4-6	1500	9	1
Lerwick	994·1	+6	W	3	c	37	92	8	8	7	-	4-6	7-8	800	4	*
Blacksod Point	996·4	-68	S	4	rr	39	97	7	6	-	-	10	10	<150	2	3
Malin Head	999·1	-20	S	1	c	37	85	8	4	-	7	2-3	9	5700	1	3
Aldergrove	1000·9	-14	S	2	zo	34	97	6	5	2	-	7-8	10	800	1	*
Birr Castle	998·9	-34	SSW	2	ir	39	97	7	6	2	-	4-6	10	800	1	*
Valentia Obsy. †	998·4	-36	SW'S	5	o/pr	51	92	8	5	-	-	10	10	1500	1	3
Roches Point	1000·5	-26	WSW	3	ido	49	97	7	5	3	-	7-8	10	800	1	2

PAST 24 HOURS. Weather.

Stations	7h.–13h. 31st (37)	13h.–18h. 31st (38)	18h. 31st to 1h. 1st (39)	1h.–7h. 1st (40)
London (Kew)	cxqbcbmbmo	bmbecmo	ciroc ro	crorro
Croydon	bcbzo	bzcz	iroddrodo	dodorroro
S. Farnborough	bccb	bccom	cmromo	crorrc
Boscombe Down	bxbcb	cidormo	rrrorof	ofcrrm
Calshot (Sthmtn.)	bcb,bc	c,dororomo	crorodrm	crororro
Lympne	bczob	bcmo	orodomo	Ffdoir
Manston	ciro,bmo	b,cmo	ciroroem	croroirmo
Shoeburyness	irobcbm	bmcmo	cxmoiro	crr
Felixstowe	bcmob	bbcmo	bcmocm	cmoRR
Corleston	bcbbc	bczox	bcczox	orrq
Mildenhall	bcmo	bmobcmo	cm iro	coRR
Cranwell	bxcmopsb	cbcmom	omoromo	ororrr
Birmingham	b	bcmc	oror	orur
Upper Heyford	bcb	bcc	crororoc	crororrc
Ross-on-Wye	bbcc	coido	doorodo	orc
Hartland Point	phriro	rdoddd	ddcddo	orriro
Bristol	bbcc	croro	crorc	cRRbc
Portland Bill	co	orr	orrzo	orrc
Plymouth	b,cirom	iro,ojf	cprc	cprc
The Lizard	bcprc	c	cidm	dmrrc
Scilly (St. Mary's)	cp,c	cpodo	cdooro	ororocpo
Guernsey	bcpro	orrc	boir	oirro
Pembroke	beirq	cirqm	rrqc	cqbc
Holyhead	bcproc	cvroroc	rrRRc	RRroroc
Chester (Sealand)	bcprobc	bccmo	cmorr	crr
Manchester	bcbcmom	bcmmoef	mcmmrrRR	cmRRror
Spurn Head	bbc	bczo	cor	Rrsq
Catterick	xbbc	bccbc	bcass	ossm
Tynemouth	bc	bcc	co	prsrs
St. Abbs Head	by	c	c	rrqc
Leuchars	bcxbx	bx,cxmo⊕	cxmo⊕	cxrsrs
Renfrew (Abbots I.)	bbcxpso	bccmom	cm mo	csorsro
Eskdalemuir	b	bcc	cososo	sosoSS
Point of Ayre	cphr	c	corr	RRrr
Tiree	phoc	cphr	cph	cbc
Stornoway	bc	bc	b	cprph
Dalwhinnie	cisobc	ciso	*	ciso
Aberdeen	bbcb	bzo	bfbc	bcczo
Wick	cbc	bc	b	bbc
Lerwick	cpsrs	cirs	cirs	bc
Blacksod Point	iro	iR	prcq	prcq
Malin Head	cbcc	cbcc	ccsrorrc	crrc
Aldergrove	bxccm	cffmo	sorosoroso	roroc
Birr Castle	cir	cir		rriro
Valentia Obsy. †	idDRdr	drcp,c	roropcpr	prqpirc
Roches Point	iroDD	Dido	idrrc	cir bc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s_o, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s_o/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.

q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
⊕, Solar halo. ⊕ lunar halo. Aurora.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.

Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.

An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries. "tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky. "9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8)

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As: Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 . . Ground dry.
1 . . „ wet.
2 . . „ flooded.
3 . . „ frozen hard and dry.
4 . . „ partly covered with snow or hail.
5 . . „ covered with ice or glazed frost.
6 . . Ground covered with thawing snow.
7 . . „ covered with snow, less than 6 ins., deep but ground not frozen.
8 . . „ covered with snow, less than 6 ins., but ground frozen
9 . . „ covered with snow greater than 6 ins. deep.

The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2

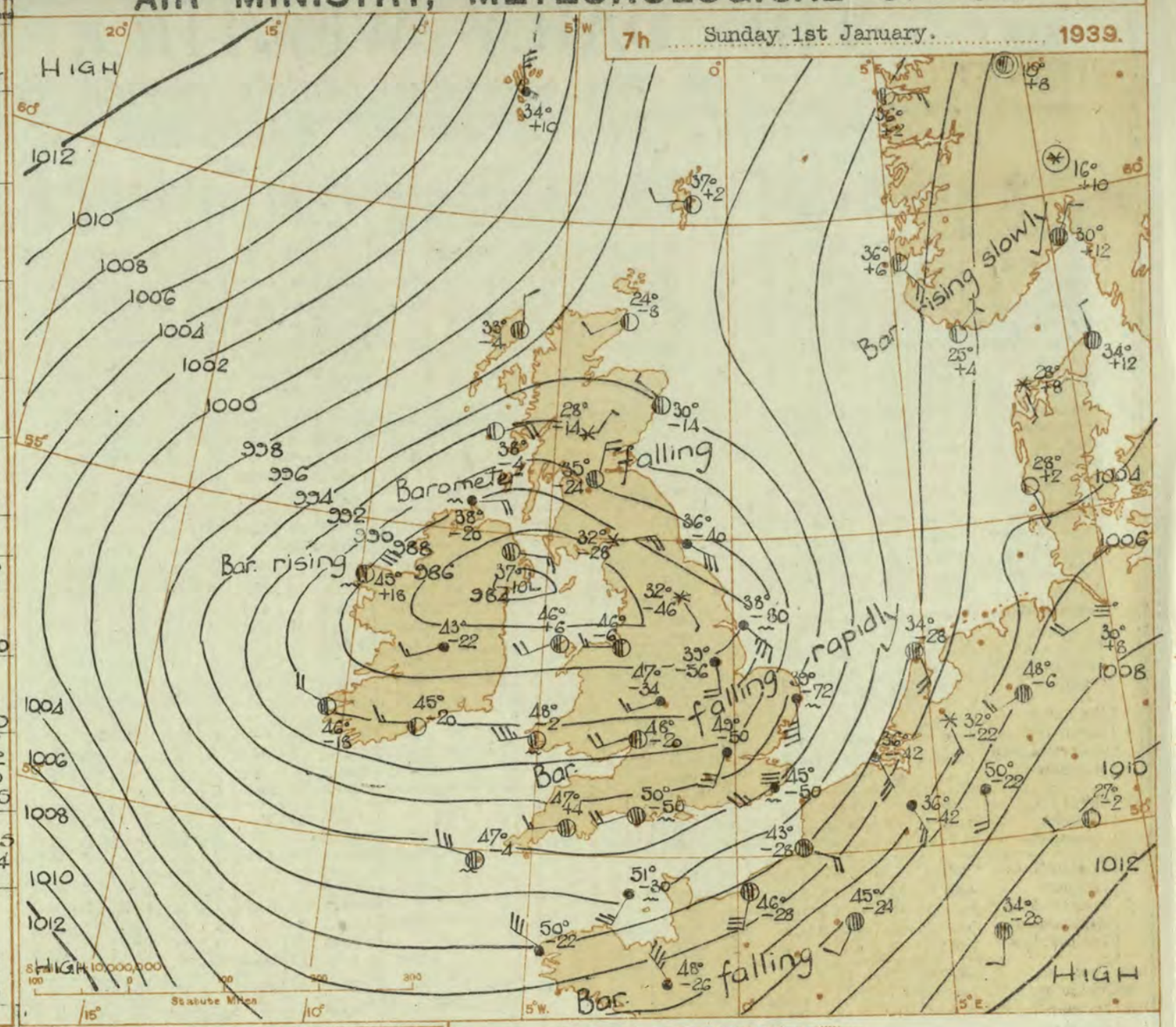
§ Reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 31st December 1938.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F.) Min. 21h. 30 to 9h. 31st	Temperature. (°F.) Max. 9h.—17h. 31st	Rainfall. (mm.) Night 17h. 30th to 9h. 31st	Rainfall. (mm.) Day. 9h.—17h. 31st	Sunshine (hrs.) Sunrise to Sunset 31st
1	Tunbridge W.	bcb	bco	30	41	–	–	5·8
	Bournemouth	bbc	od	35	43	0·3	0·5	2·6
	Ventnor ...	xb	opor	38	45	–	Trace	3·9
	Southsea ...	b	cor	35	43	–	0·2	3·5
	Bognor Regis	xb	bccor	35	43	–	Trace	2·9
	Littlehampton	bc	bcc	34	44	–	–	4·0
	Worthing ...	b	bbcc	34	43	–	–	4·5
	Brighton ...	b	bbc	37	44	–	–	4·5
	Eastbourne† ...	bcbbc	bcco	37	43	–	–	5·0
	Hastings† ...	bcb	bcco	39	44	–	–	4·5
	Folkestone ..	bcb	bcc	32	42	–	–	4·9
	Dover ...	bc	bcc	36	43	–	–	5·2
	Deal	cb	bbcc	35	41	–	–	5·0
	Ramsgate ...	bc	bc	34	40	–	–	5·9
	Margate ...	b	bbc	35	40	–	–	5·8
2	Southend ...	bz	bcc	33	41	–	–	5·6
	Clacton-on-Sea	psbc	bcl	32	39	1	–	6·1
	Dovercourt ...	sbcv	bc	32	38	0·5	–	6·0
	Lowestoft ...	b	b	32	36	–	–	6·5
	Skegness ...	cb	bbcm	31	44	–	–	4·9
	Mablethorpe...	bcb	bm	31	36	–	–	5·7
	Cleethorpes ...	cbcb	bbc	32	37	–	–	5·9
3	Leamington S.	b	bcco	31	39	4	–	3·5
4	Cheltenham†	xbcc	cop	33	43	–	Trace	3·2
5	Bath	bbcc	cfo	36	43	–	0·5	2·9
	Weymouth ...	bc	cfo	38	46	0·2	1	2·0
	Jersey ...	pcr	rc	48	48	1	4	0·1
	Torquay ...	wbco	ordd	36	45	0·3	0·6	1·0
	Falmouth	odmrq	cgorc	40	50	0·6	2	0·0
	Penzance ...	modd	c	42	51	3	1	0·1
	St. Ives ...							
	Bude... ...	c	omd	43	48	0·5	3	0·0
	Ilfracombe ...	orc	coro	41	47	1	1	0·0
6	Aberystwyth	cbcc	cpr	40	44	–	1	0·7
7	Llandudno ...	ccbc	c	33	42	6	–	1·2
	Colwyn Bay...	bcbcb	bcbco	34	41	7	–	0·9
	Rhyl	cbc	bcc	34	43	11	–	2·5
8	Wallasey ...	bc	bcc	37	44	2	–	2·6
	Southport ...	bcbbc	c	35	45	1	–	3·5
	Blackpool ...	cpmo	bccm	34	42	2	Trace	2·4
	Morecambe ...							
9	Ilkley... ...	bcb	bbc	31	39	4	–	5·5
	Harrogate ...	b	bbc	32	37	0·3	–	5·5
10	Berwick-on-T.	b	bbcc	29	37	–	–	5·1
11	Dunbar ...	bcmox	bc	29	36	–	–	4·6
12	Troon... ...	xbc	cohoc	33	42	1	Trace	2·2
	Douglas ...	bc	bc	35	41	–	–	2·3

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 1st January, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ...	Moderate to fresh westerly winds, gale at times on coasts, veering northwest later; occasional rain at first, bright periods and showers later; mild at first, becoming rather cold.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ...	Fresh to strong west to northwest winds, gale at times on coasts; bright periods and local showers, mild at first becoming rather cold.
8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Moderate to fresh southeast winds becoming fresh to strong from northwest later, gale at times on coasts; some sleet or snow at first, bright intervals and wintry showers later; rather cold.
12 S.W. Scotland & Isle of Man.	Fresh to strong east to northeast winds, becoming north to northwest later, gale at times on coasts; occasional rain or showers, some bright periods; rather cold.
13 A. W. Scotld. B. N.W. Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Wind light variable becoming northeast to north, moderate to fresh; sleet or snow showers but bright intervals; cold.
17 N. W. Ireland 18 N. E. Ireland	As 12 - 13A.
19 S. E. Ireland 20 S. W. Ireland	As 4 - 7.

GENERAL INFERENCE.

A deep depression centred over North Ireland will move east. There will be occasional rain at first in the south and sleet or snow in southern Scotland and northern England. It will be mild at first in the south but brighter and colder conditions will spread from the northwest later.

FURTHER OUTLOOK.

Bright periods and showers; becoming colder in the south.

Times of Issue of Gale Warnings.

South cone hoisted at 0130 on 1st in districts 5, 6, 19 and part of 1. At 0430 on 1st in districts 2,7,8, 10, parts of 12 and 18 and remainder of 1.

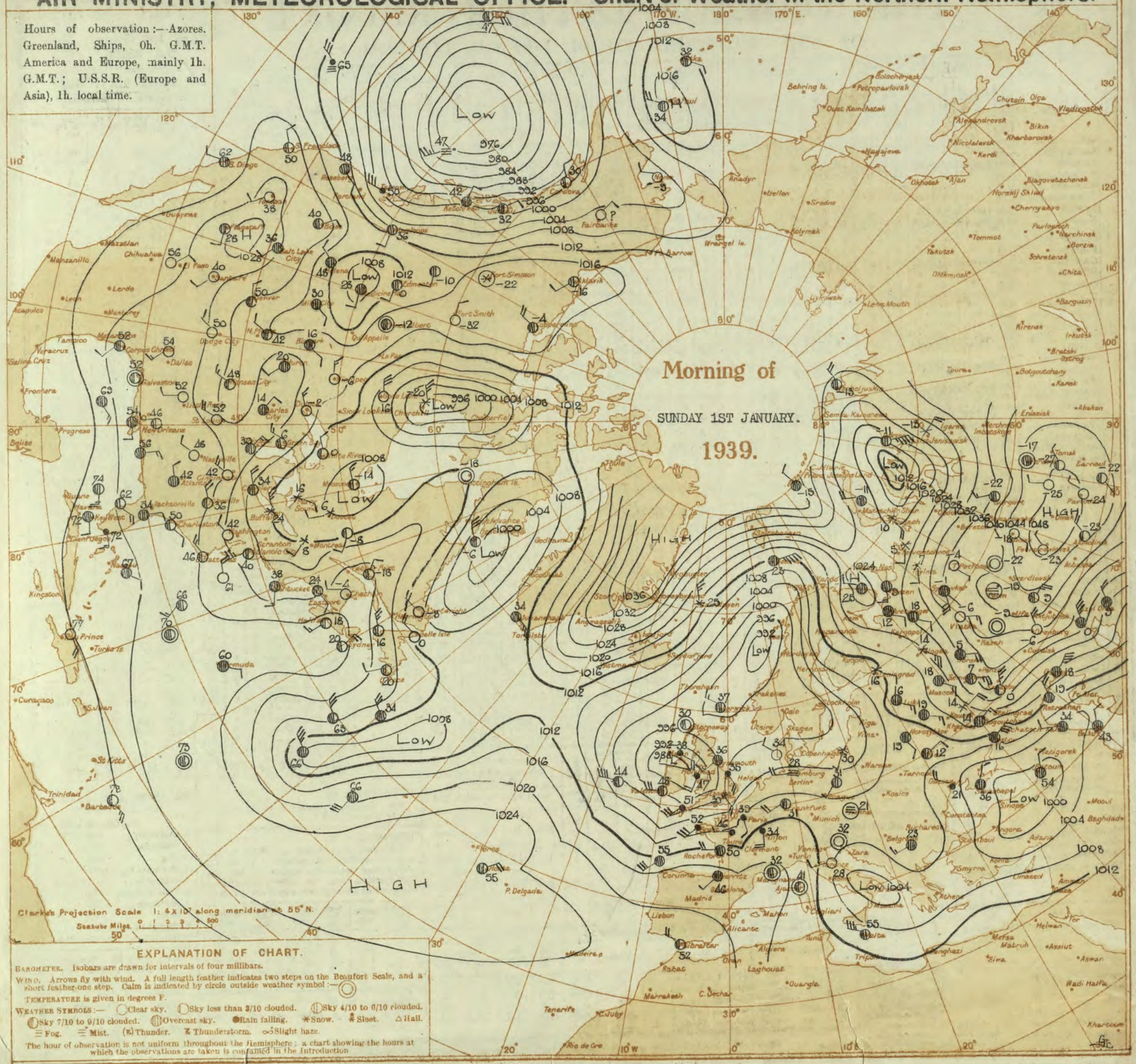
North cone hoisted at 0920 on 1st in districts 17,20 and parts of 12 and 18.

Forecasts issued at 1000 G. M. T.

N. K. JOHNSON, M.Sc., A.R.C.S.
Director.

H.M. Stationery Office Press, Kingsway, W.C.2

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS :— Clear sky. Sky less than 3/10 clouded. Sky 4/10 to 6/10 clouded. Sky 7/10 to 9/10 clouded. Overcast sky. Rain falling. Snow. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.

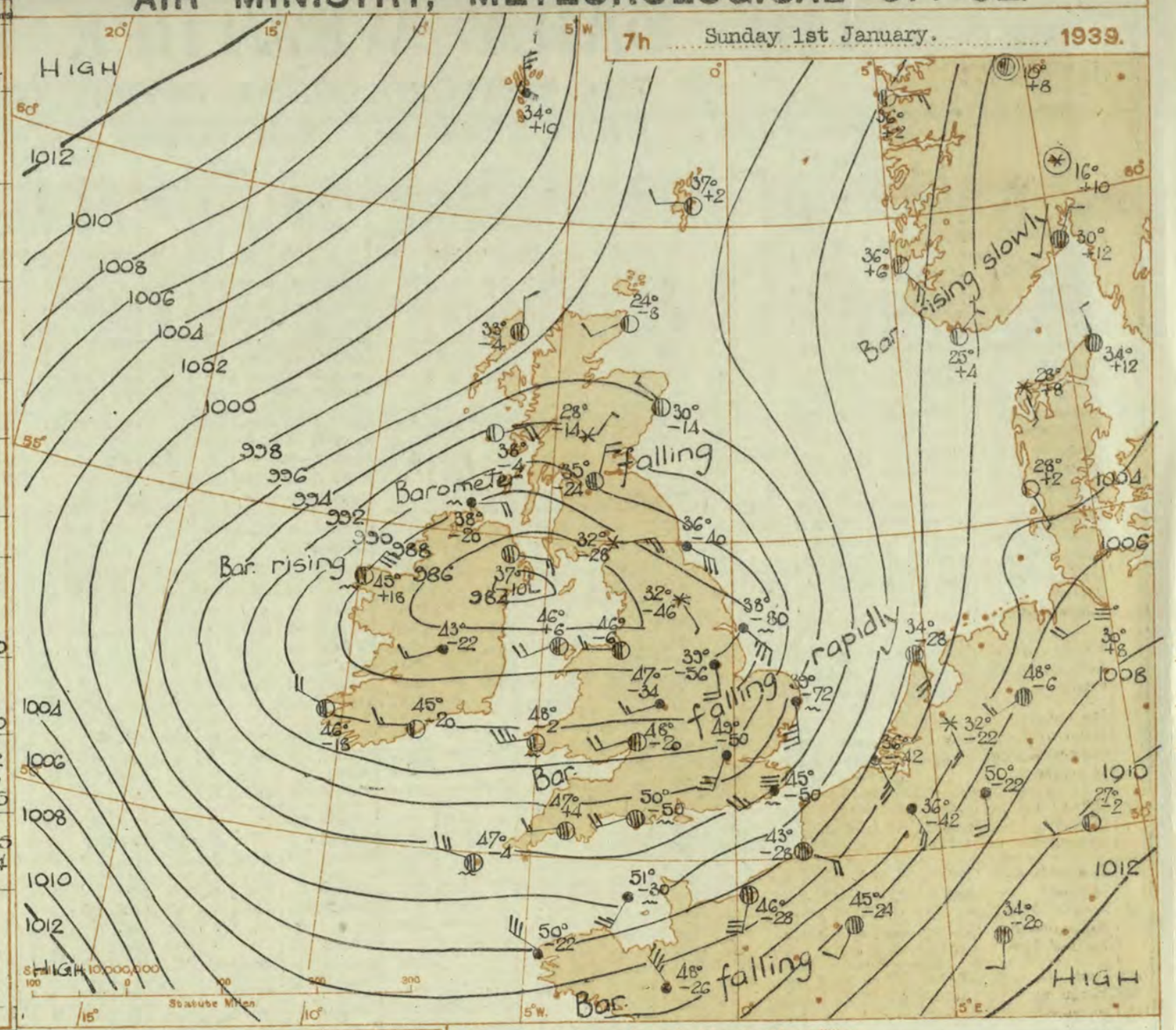
The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 31st December 1938

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F.) Min. 9h. 30th to 9h. 31st	Temperature. (°F.) Max. 9h.—17h. 31st	Rainfall. (mm.) Night 17h. 30th to 9h. 31st	Rainfall. (mm.) Day. 9h.—17h. 31st	Sunshine (hrs.) Sunrise to Sunset 31st
1	Tunbridge W.	bcb	bco	30	41	–	–	5·3
	Bournemouth	bbc	od,r	35	43	0·3	0·5	2·6
	Ventnor ...	xb	opor	38	45	–	Trace	3·3
	Southsea ...	b	cor	35	43	–	0·2	3·5
	Bognor Regis	xb	bccor	35	43	–	Trace	2·3
	Littlehampton	bc	bcc	34	44	–	–	4·0
	Worthing ...	b	bbcc	34	43	–	–	4·5
	Brighton ...	b	bbc	37	44	–	–	4·5
	Eastbourne† ...	bcbbc	bcco	37	43	–	–	5·0
	Hastings† ...	bcb	bcco	33	44	–	–	4·5
	Folkestone ..	bcb	bcc	32	42	–	–	4·9
	Dover ...	bc	bcc	36	43	–	–	5·2
	Deal	cb	bbcc	33	41	–	–	5·0
	Ramsgate ...	bc	bc	34	40	–	–	5·9
	Margate ...	b	bbc	35	40	–	–	5·8
2	Southend ...	bz	bce	33	41	–	–	5·6
	Clacton-on-Sea	psbc	bcl	32	39	1	–	6·1
	Dovercourt ...	sbcv	bc	32	38	0·5	–	6·0
	Lowestoft ...	b	b	32	36	–	–	6·5
	Skegness ...	cb	bbcm	31	44	–	–	4·5
	Mablethorpe...	fcb	bm.	31	36	–	–	5·7
	Cleethorpes ...	cbcb	bbc	32	37	–	–	5·9
3	Leamington S.	b	bcco	31	39	4	–	3·5
4	Cheltenham†	xbcc	cop.	33	43	–	Trace	3·2
5	Bath	bbcc	cr.fo	36	43	–	0·5	2·9
	Weymouth ...	bc	cir.	38	46	0·2	1	2·0
	Jersey ...	pcr	rc	48	48	1	4	0·1
	Torquay ...	wbco	ordd.	36	45	0·3	0·6	1·0
	Falmouth	odmrg	cgorc	40	50	0·6	2	0·0
	Penzance ...	modd	c	42	51	3	1	0·1
	St. Ives ...							
	Bude... ...	c	omd	43	48	0·5	3	0·0
	Ilfracombe ...	oroc	coro	41	47	1	1	0·0
6	Aberystwyth	cbcc	cpr	40	44	–	1	0·7
7	Llandudno ...	ccbc	c	33	42	6	–	1·2
	Colwyn Bay...	bcbcb	bcbco	34	41	7	–	0·9
	Rhyl	cbc	bcc	34	43	11	–	2·5
8	Wallasey ...	bc	bcc	37	44	2	–	2·6
	Southport ...	bcbbc	c	35	43	1	–	3·5
	Blackpool ...	cp.m.	bccm	34	42	2	Trace	2·4
	Morecambe ...							
9	Ilkley... ...	bcb	bbc	31	39	4	–	5·5
	Harrogate ...	b	bbc	32	37	0·3	–	5·5
10	Berwick-on-T.	b	bbcc	29	37	–	–	5·1
11	Dunbar ...	bcm.x	bc	29	36	–	–	4·6
12	Troon... ...	xbc	cohoc	33	42	1	Trace	2·2
	Douglas ...	bc	bc	35	41	–	–	2·3

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	Forecasts for the 24 hours commencing 12 noon, G.M.T. 1st January, 1939.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Moderate to fresh westerly winds, gale at times on coasts, veering northwest later; occasional rain at first, bright periods and showers later; mild at first, becoming rather cold.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ...	Fresh to strong west to northwest winds, gale at times on coasts; bright periods and local showers, mild at first becoming rather cold.
8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Moderate to fresh southeast winds becoming fresh to strong from northwest later, gale at times on coasts; some sleet or snow at first, bright intervals and wintry showers later; rather cold.
12 S.W. Scotland & Isle of Man.	Fresh to strong east to northeast winds, becoming north to northwest later, gale at times on coasts; occasional rain or showers, some bright periods; rather cold.
13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Wind light variable becoming northeast to north, moderate to fresh; sleet or snow showers but bright intervals; cold.
17 N. W. Ireland 18 N. E. Ireland	As 12 - 13A.
19 S. E. Ireland 20 S. W. Ireland	As 4 - 7.

GENERAL INFERENCE.

A deep depression centred over North Ireland will move east. There will be occasional rain at first in the south and sleet or snow in southern Scotland and northern England. It will be mild at first in the south but brighter and colder conditions will spread from the northwest later.

FURTHER OUTLOOK.

Bright periods and showers; becoming colder in the south.

Times of Issue of Gale Warnings.

South cone hoisted at 0130 on 1st in districts 5, 6, 19 and part of 1. At 0430 on 1st in districts 2,7,8, 10, parts of 12 and 18 and remainder of 1.

North cone hoisted at 0920 on 1st in districts 17,20 and parts of 12 and 18.

Forecasts issued at 1000 G. M. T.

N. K. JOHNSON, M.Sc., A.R.C.S
Director.

H.M. Stationery Office Press, Kingsway, W.C.2.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 2nd January, 1939

No. 28165

OBSERVATIONS at 13h. G.M.T. 1st January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Amount Low 0–10 (12)	Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	991·5	-4	SWW	3	zo	47	75	6	5	2	-	7-8	9+	4000
	Croydon	992·5	-2	WSW	5	zo	47	75	6	5	7	-	4-6	9+	1500
	S. Farnborough	991·8	-10	SWW	4	c	46	85	8	5	7	8	4-6	9+	2500
	Boscombe Down	992·3	-10	SW	3	c	46	75	8	5	7	2	7-8	9	2500
	Calshot (Sthmtn.)	994·1	-2	SW	4	c	47	85	7	5	7	-	2-3	9+	2500
	Lympne	993·6	-2	WSW	3	c/pr	46	92	7	5	7	-	9	9+	1500
	Manston	992·0	-2	WS	4	c	47	85	7	5	-	-	10	10	2500
2	Shoeburyness	992·2	-2	WSW	3	c	47	75	6	5	-	-	9+	9+	800
	Felixstowe	990·7	-4	WSW	3	c	48	75	7	5	7	-	4-6	9+	2500
	Gorleston	989·4	-6	WN	3	c	47	85	7	5	-	-	10	10	2500
	Mildenhall	989·6	+4	WSW	3	c	45	85	7	2	4	6	2-3	9	2500
	Cranwell	987·5	-8	SWW	4	zo	44	85	6	5	-	3	2-3	7-8	2500
3	Birmingham	988·6	-10	SW	3	pr	44	75	8	8	-	-	4-6	4-6	1500
	Upper Heyford	990·6	-6	WS	4	c/r	45	85	7	5	3	1	9	9+	1500
4	Ross-on-Wye	989·0	-12	WS	4	c	48	65	8	8	-	-	7-8	7-8	2500
5	Hartland Point	989·4	-26	W	7	pr	47	85	8	8	-	-	9	9	1500
	Bristol	990·9	-14	WSW	4	c/pr	48	75	8	8	4	1	2-3	4-6	2500
	Portland Bill	992·8	+4	WSW	4	c	48	92	8	5	-	-	7-8	7-8	2500
	Plymouth	993·8	-20	WSW	4	bc	49	75	8	8	-	-	2-3	2-3	2500
	The Lizard	994·3	-10	WS	6	bc	49	85	8	8	7	-	4-6	4-6	2500
	Scilly (St. Mary's)	993·6	-20	WS	7	bc	50	75	8	8	7	-	4-6	4-6	1500
	Guernsey	995·8	-16	WS	4	c	49	75	7	5	3	-	4-6	9	2500
6	Pembroke	988·4	-30	W	7	o	47	85	8	8	6	-	2-3	4-6	2500
7	Holyhead	984·2	-22	WS	4	c	47	75	8	9	1	-	7-8	9+	1500
	Chester (Sealand)	986·4	-14	SW	3	pr	46	75	7	8	-	-	9	9	2500
8	Manchester	985·8	-18	SW	3	zo	47	75	6	8	3	-	4-6	4-6	4000
10	Spurn Head	986·5	0	SW	3	bc	41	92	6	-	9	4	0	4-6	-
	Catterick	985·3	-12	-	0	zo	34	97	5	5	-	-	9+	9+	1500
	Tynemouth	984·2	-18	ENE	4	o	40	97	7	9	-	-	10	10	1500
11	St. Abbs Head	987·6	-10	E	5	rr	37	97	7	3	2	-	7-8	10	1500
	Leuchars	990·2	-12	ENE	4	roro	37	92	7	6	2	-	9	10	800
12	Renfrew (Abbots I.)	989·4	-2	NEE	3	roro	36	85	6	6	2	-	7-8	10	1500
	Eskdalemuir	986·4	-8	NEN	4	soso	33	92	6	-	2	-	10	10	450
	Point of Ayre	984·8	-2	EN	4	roro	39	97	7	6	2	-	7-8	10	1500
13A	Tiree	991·9	+2	NNE	4	c	40	75	8	5	-	-	9	9	1500
13B	Stornoway	996·7	+2	NE	3	c	36	75	8	8	9	9	1	9	4000
15	Dalwhinnie	993·4	-6	N	2	soso	30	92	5	5	1	-	7-8	10	1500
	Aberdeen	993·2	-10	E'S	3	iro	37	85	6	6	2	-	4-6	10	450
	Wick	994·8	-2	WNW	3	c/ps	31	92	8	5	7	8	7-8	9+	1500
16	Lerwick	996·2	-4	SSE	1	c	37	85	8	8	5	9	4-6	7-8	1500
17	Blacksod Point	992·4	+20	NNE	6	c	44	85	8	9	-	-	9+	9+	1500
18	Malin Head	989·6	+8	NNE	5	c/r	39	92	6	6	-	-	9+	9+	1500
	Aldergrove	986·0	+2	NNE	3	z	37	92	6	5	2	-	9+	10	1500
19	Birr Castle	987·1	0	WNW	3	c/r	38	97	7	6	2	-	7-8	10	800
20	Valentia Obsy. †	993·7	+4	NWN	5	pr	43	85	8	9	-	-	9+	9+	1500
	Roches Point	990·4	+2	NW	5	bc	46	75	9	3	4	3	2-3	4-6	2500

OBSERVATIONS at 18h. G.M.T. 1st January — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Amount Low 0–10 (26)	Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.–13h. 1st (37)	Weather 13h.–18h. 1st (38)	Weather 18h. 2nd to 1h. 2nd (39)	Weather 1h.–7h. 2nd (40)
London (Kew)	989·3	-10	SSW	4	bc	43	85	7	5	-	-	2-3	2-3	4000	1	*	crro cm	cmobc	bc	coc
Croydon	990·5	-12	SW	4	zo	43	92	6	-	4	-	0	Tr	-	1	*	rorordmo	cmobcz	bmopocbw	cproc
S. Farnborough	989·9	-8	SWS	4	b	42	85	6	-	4	1	0	1	-	1	*	mrorc	c'bcbmo	bcb,c	irocmoro
Boscombe Down	989·5	-10	SWW	4	bc	43	85	7	-	3	-	0	4-6	-	1	*	roroqiroc	cbc	bcc	c
Calshot (Sthmtn.)	991·9	-10	SWW	4	b	45	85	8	-	3	-	0	1	-	1	2	crod'omoc	cbcb	bciro	c
Lympne	993·2	+2	SWW	2	zo	40	92	6	-	-	8	0	4-6	-	1	§ 2	ffddroroq	cobcc	bccprqpr	cb,c
Manston	991·1	-4	SWS	3	c	40	92	7	-	-	6	0	7-8	-	1	*	crrmo	cbc ⊕	bc Ⓘb,c	cprbcc
Shoeburyness	991·2	-6	SW	3	bc	40	92	8	5	-	-	2-3	2-3	2500	1	*	rorocmo	cmo	b,c	cciro
Felixstowe	989·9	-6	W	3	bc	41	92	7	5	3	-	4-6	4-6	2500	1	2	rrc	cmobc	bccbc	bcproGm
Gorleston	989·1	-6	SSW	3	bc	41	85	6	-	4	-	0	2-3	-	1	2	orrroroq	cbccbc	bcciroc	coiro
Mildenhall	988·0	-12	SSW	3	c	43	85	7	5	-	-	9	9	4000	1	*	c	bcmoc	ccmo	cmoRR,roro
Cranwell	986·0	-14	SWS	4	bc/pr	42	86	7	5	-	3	2-3	4-6	1500	1	*	oirocdoc	bcb,cpro	bcproc	ciro
Birmingham	987·1	-6	SW	3	c	42	75	8	4	-	-	7-8	7-8	2500	1	*	odobc	bccpro	coiro	oiro
Upper Heyford	988·6	-10	SW	4	pr	43	85	6	5	3	-	7-8	9	1500	1	*	cromoc	cvcprobc	cpro	ccrc
Ross-on-Wye	987·7	-4	WSW	3	c	44	75	8	8	-	-	9+	9+	2500	1	*	cpobcc	cpocpc	cpo	c*
Hartland Point	988·8	-4	WNW	6	c	45	75	8	8	-	-	7-8	7-8	1500	1	4	ocpo	cp	cproro	
Bristol	988·6	-8	SW	3	bc	43	85	8	8	3	1	4-6	4-6	1500	1	*	bccpo	bcpocpo	cpopc	c
Portland Bill	991·2	-20	W	4	c	47	92	7	5	4	-	10	10	2500	1	4	c	c	c	c
Plymouth	991·5	-2	W	5	pr	44	97	7	9	-	-	7-8	7-8	1500	1	2	cprcbc	bccpro	cpr	cpr
The Lizard	992·3	-10	SWW	6	pr	44	97	7	8	6	-	7-8	9	1500	1	4	cprbc	bcc pr	bcprq	prbcq
Scilly (St. Mary's)	992·8	+2	WN	6	pr	44	85	8	8	7	3	4-6	7-8	800	1	4	cpobc	cprcp	cpqbc	cphrq
Guernsey	993·6	-20	SW	3	c	47	65	7	-	3	-	0	9	-	1	3	o'ro rr	c	bcphr	cphrq
Pembroke	986·7	-6	WNW	7	cq	43	97	7	8	-	-	9+	9+	800	1	4	bccprq	bccq	ocqir	oirocbcq
Holyhead	983·9	0	NNE	4	rr	42	92	6	9	7	-	4-6	10	1500	1	3	roroirbc	crrmoc	Rmoiroc	c,bc
Chester (Sealand)	984·6	-4	SSW	3	c	42	75	8	8	-	-	4-6	7-8	2500	1	*	crobccpr	cproprbc	bccRRm	crrmo
Manchester	984·8	-2	SWW	2	c/r	42	97	5	5	7	-	9	10	2500	1	*	cmropro	bczoprro	cmor	cmororo
Spurn Head	986·2	-2	SW	3	c	41	97	6	5	2	-	7-8	10	1500	1	2	rrmdc	cpro	coc	Ffwm
Catterick	984·5	-2	-	0	zo	34	97	5	5	-	-	10	10	1500	8	*	sodocmo	cmo	cmorso	cmoirs
Tynemouth	983·5	-2	N	5	o	38	92	7	6	-	-	10	10	800	1	2	orsrso	omo	oiro	oirrr
St. Abbs Head	987·3	+2	NE	6	ir	38	92	8	3	2	-	7-8	10	800	1	4	rrqc	cqir	ircq	cqphr
Leuchars	990·1	+6	ENE	4	roro	38	85	6	6	2	-	7-8	10	800	1	*	rsrs roro	roro irs	roro irs	cprosx
Renfrew (Abbots I.)	990·8	+12	NNE	3	iro	36	85	6	5	2	-	7-8	10	1500	1	*	rosoroiro	cmo iro	cmoiro	cmobc
Eskdalemuir	986·3	+2	NNE	4	rs	34	92	6	5	-	-	9+	9+	450	6	*	sosoo	oirs	cirs	irsbcirs
Point of Ayre	985·8	+6	NE	5	c	40	92	7	8	2	-	7-8	10	1500	1	3	rocro	rocpr	irc	cbc
Tiree	994·6	+14	NE	5	bc	41	75	8	8	5	-	4-6	4-6	2500	0	4	c	cbc	bcc	cpho
Stornoway	998·3	+16	N	5	c	36	85	8	8	7	7	1	10	2500	7	3	bcc	c	crrbc	cphro
Dalwhinnie	*	+10	NE	3	c	30	97	5	5	1	-	7-8	10	1500	7	*	csoso	css	*	css
Aberdeen	993·6	+8	EN	4	rs	37	92	6	6	2	-	7-8	9	800	1	2	rosoro	irosr	czorsr	rsr-PH
Wick	995·6	+6	NNE	3	roro	37	92	8	5	7	8	4-6	7-8	1500	6	1	cpsh	rscro	crc	rrbc
Lerwick	997·0	+4	SSE	1	c/pr	39	85	7	8	7	-	7-8	9	1500	4	*	bcc	cpro	cphr	cphrpr
Blacksod Point	995·8	+22	NNE	6	cq	41	85	8	9	-	-	7-8	7-8	1500	1	4	prh cq	phrcq	procq	prcq
Malin Head	993·3	+30	NE	5	c	41	85	8	2	-	4	4-6	7-8	5700	1	4	ciro	cproc	cbcc	cprc
Aldergrove	989·7	+26	NNE	4	roro	37	92	5	6	2	-	7-8	10	800	1	*	idomoc	crormo	crorom oc	cbxbc
Birr Castle	991·6	+18	NNW	3	c/pr	38	92	8	9	2	-	4-6	10	800	1	*	ciro	prspr	cprbc	bcbx
Valentia Obsy. †	986·6	+20	NEN	4	c/pr	43	75	8	9	-	-	4-6	4-6	2500	1	3	prpro	prpo bc	bcrorqr	bproqb
Roches Point	992·7	+12	NNW	5	bc	42	85	8	3	4	3	2-3	4-6	2500	1	3	bc	cprobc	bc	bcb

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog ,, less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s_o, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s_o/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
⊕, Solar halo. Ⓘ lunar halo. Aurora.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain, —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.

Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.

An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.

"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.

"9 +" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8)

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As: Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. ,, wet.
2 .. ,, flooded.
3 .. ,, frozen hard and dry.
4 .. ,, partly covered with snow or hail.
5 .. ,, covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. ,, covered with snow, less than 6 ins., deep but ground not frozen.
8 .. ,, covered with snow, less than 6 ins., but ground frozen
9 .. ,, covered with snow greater than 6 ins. deep.

Note.—The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2

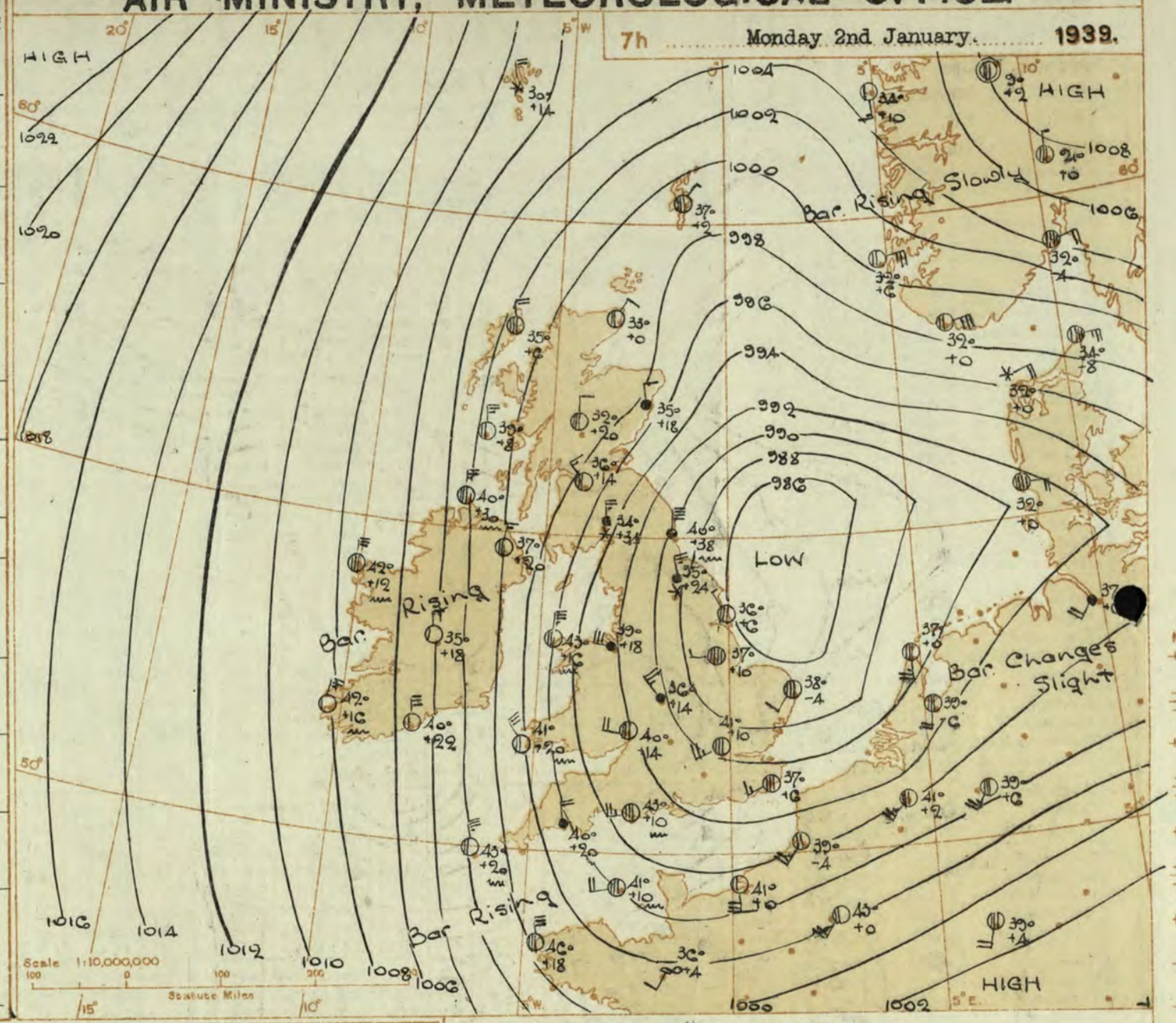
§ See disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 1st January 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F.) Min. 9h. 31st. to 9h. 1st.	Temperature. (°F.) Max. 9h.—17h. 1st.	Rainfall. (mm.) Night. 17h. 31st. to 9h. 1st.	Rainfall. (mm.) Day. 9h.—17h. 1st.	Sunshine (hrs.) Sunrise to Sunset. 1st.
1	Tunbridge W.	oroc	cbcc	35	51	7	0·3	0·7
	Bournemouth	c	bbc	38	48	9	-	2·8
	Ventnor ...	oro	obc	40	48	7	-	0·8
	Southsea ...	c	cbcb	40	48	6	-	0·9
	Bognor Regis	o	bc	39	49	6	-	0·0
	Littlehampton	oc	cbc	36	48	5	-	1·0
	Worthing ...	c	cbcb	37	47	5	-	0·9
	Brighton ...	dc	bc	37	49	5	Trace	0·8
	Eastbourne† ...	r.o	ocbc	41	50	6	0·6	0·0
	Hastings† ...	r.oc	ocbc	38	48	4	Trace	0·1
	Folkestone ..	m.odo	ocbc	35	48	3	0·3	0·0
	Dover ...	oroc	cbc	36	47	3	0·3	0·0
	Deal	rr	o	36	48	3	2	0·0
	Ramsgate ...	dr	oc	36	48	4	2	0·0
	Margate ...	cdr	c	37	50	4	1	0·0
2	Southend ...	orc	cbcb	34	46	4	0·3	0·6
	Clacton-on-Sea	rror.	cbc	32	47	11	Trace	0·1
	Dovercourt ...	roc	oc	34	49	12	-	0·3
	Lowestoft ...	o	cbc	30	48	15	-	0·0
	Skegness ...	orocb	bcbc	30	46	11	3	2·3
	Mablethorpe...							
	Cleethorpes ...	c	cbc	30	43	15	-	0·8
3	Leamington S.	c	cp	33	47	9	0·3	1·8
4	Cheltenham†	cbcc	cir.	38	50	1	0·3	1·6
5	Bath	bcc	bbacr	37	49	6	0·3	3·0
	Weymouth ...	c	b	42	50	5	-	2·6
	Jersey ...	rrc	rcbcc	44	52	3	4	0·1
	Torquay ...	m.cbc	bcq	38	50	5	-	3·4
	Falmouth	b	bcom	43	50	8	2	3·8
	Penzance ...	cbc	bccp	45	50	7	0·5	3·6
	St. Ives ...							
	Bude... ...	cpr	cpr	44	49	4	2	1·4
	Ilfracombe ...	otro	opcbc	41	49	6	2	0·9
6	Aberystwyth	rrprc	c	39	50	11	1	0·9
7	Llandudno ...	r.cbc	cir	37	47	12	1	1·2
	Colwyn Bay...	bcp	pcpbc	37	48	10	2	1·1
	Rhyl	bccpr	orc	37	48	9	2	1·1
8	Wallasey ...	cr	bcirc	36	48	19	1	1·1
	Southport ...	cp.cb	bccrc	34	49	22	2	1·7
	Blackpool ...	bcm.c	cdorm	33	47	17	1	0·5
	Morecambe ...							
9	Ilkley... ...	sc	bcpc	30	42	21	0·4	1·4
	Harrogate ...	obc	bbc	29	40	15	-	1·2
10	Berwick-on-T.	oir.	oir.	30	39	5	1	0·0
11	Dunbar ...	crr	crrph	29	40	5	2	0·0
12	Troon... ...	doddo	odo	34	42	3	0·3	0·0
	Douglas ...	cR	crc	35	42	27	7	0·0

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 2nd January, 1939.

Districts.	Forecasts
1 S.E. England ▲ 2 E. England ... ▲ 3 E. Midlands ... 4 W. Midlands ...	Wind northwest to north, fresh or strong or gale locally on coast; rain at first, brighter intervals later; rather cold.
5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England	Wind northwest fresh or strong; mainly bright but showers of rain or sleet or snow on the hills; rather cold.
9 N. Midlands ... 10 N.E. England ▲ 11 S.E. Scotland	Wind northwest to north fresh or strong; sleet at first, improving temporarily; cold.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. / B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Wind north to northwest, fresh or strong; showers of snow with bright periods to-day, occasional snow tomorrow; cold.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 5 - 8.

GENERAL INFERENCE.

A depression centred over the North Sea is moving slowly eastwards and a secondary to the northeast of Iceland is moving south. After a period of sleet or rain in Eastern and Northern England there will be bright intervals and local wintry showers. Later more continuous sleet or snow will move southwards to Scotland.

FURTHER OUTLOOK.

Continuing cold with northerly winds.

Times of Issue of Gale Warnings.

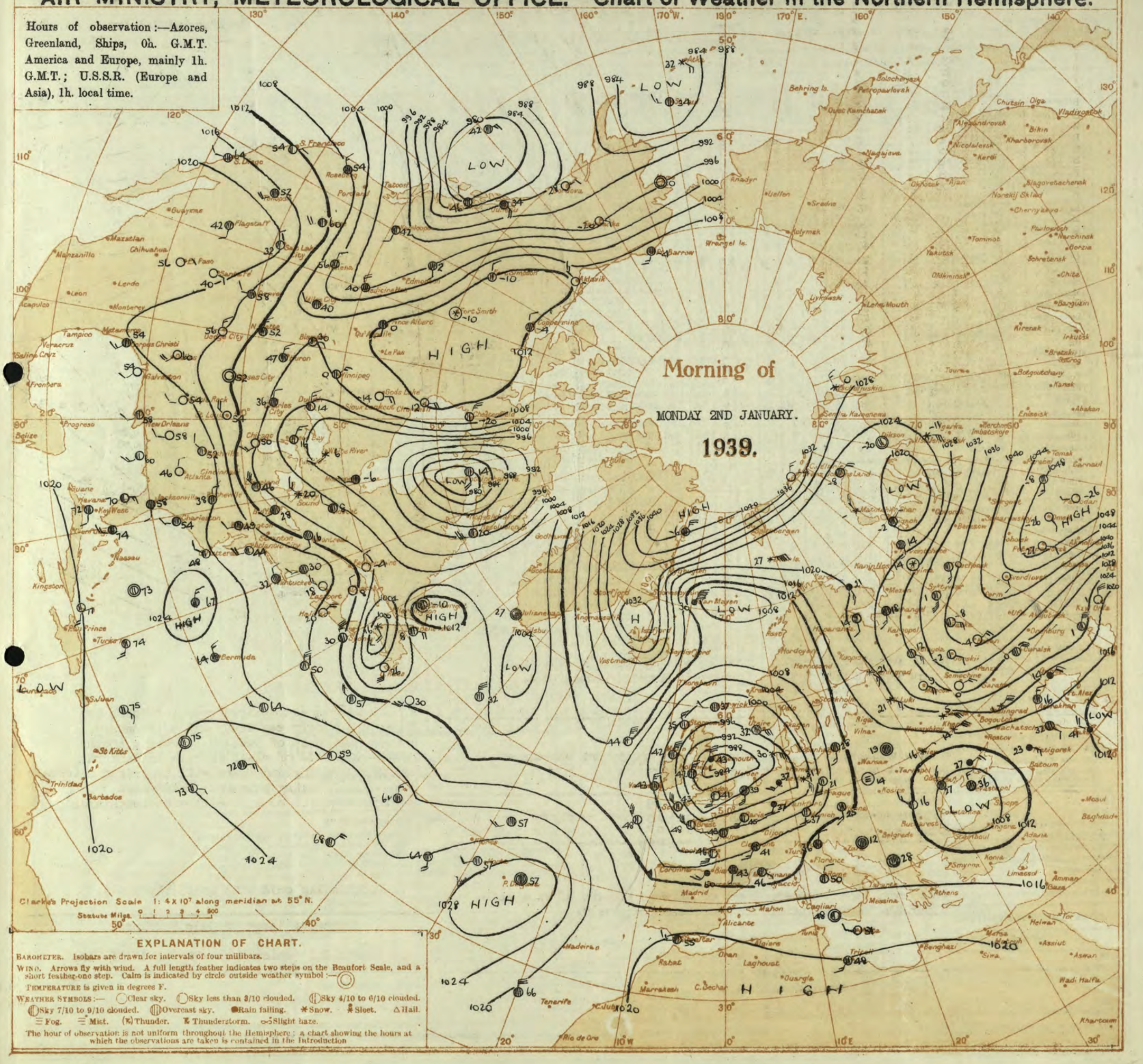
▲ North Cone hoisted at 1630 on 1/1/39 in districts 1 (part of) 2 and 10.

Forecasts issued at 1030 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S.
Director.

H.M. Stationery Office Press, Kingsway, W.C.2.

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 2nd January, 1939.
No. 28165

OBSERVATIONS at 1 hr. G.M.T. 2nd January

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Med. (10)	High (11)	Amount Low 0–10 (12)	Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	989.1	-12	S'W	4	b	41	85	8	—	4	—	0	1	—
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	990.6	-6	SW	4	br	40	92	8	9	—	3	9	9+	1500
	Manston	154	989.6	-6	SSW	3	c	39	85	7	5	3	—	4-6	7-8	2500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	988.3	-2	SW	2	c	38	92	6	6	—	—	9+	9+	1500
	Mildenhall	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	991.4	+14	NNW	7	ir₀	42	92	8	8	2	—	9	9+	1500
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32	990.5	+4	W	5	c	43	92	7	5	—	—	10	10	2500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard	240	995.6	+16	WNW	6	bc/pr	42	85	7	8	—	—	4-6	4-6	1500
	Scilly (St. Mary's)	163	997.1	+18	NNW	6	bc	43	65	8	8	—	—	4-6	4-6	2500
	Guernsey	175	993.8	+10	W	5	c/pr	45	75	8	8	—	—	7-8	7-8	2500
6	Pembroke	142	992.2	+18	NW	6	cg	42	97	7	8	—	—	9+	9+	800
7	Holyhead	26	990.3	+34	N	7	c/r	42	75	8	6	1	—	4-6	10	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	985.7	0	SW'W	2	c	39	92	6	5	6	—	7-8	9+	1500
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	108	983.5	-4	N	6	ir	43	92	6	6	—	—	10	10	800
11	St Abbs Head	280	989.8	+14	NE	5	c/r	39	85	8	3	2	—	7-8	10	1500
	Leuchars	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	991.1	+28	NNE	7	c	40	85	8	8	2	—	2-3	10	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1000.2	+6	NNW	3	bc	35	75	8	8	—	—	4-6	4-6	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	997.8	+8	NW	2	cw	37	92	8	5	1	8	4-6	10	1500
16	Lerwick	156	998.7	+6	W	2	c/phr	37	92	7	8	7	—	4-6	9	800
17	Blacksod Point	18	1003.0	+30	N	5	bc	42	85	8	2	—	—	2-3	2-3	2500
18	Malin Head	84	999.5	+28	N'E	7	cjp	42	85	8	9	6	—	4-6	7-8	4000
	Aldergrove	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1004.1	+14	N	5	bc/pr	43	92	8	8	—	—	4-6	4-6	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 2nd January / **PAST 24 HOURS.**

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Med. (24)	High (25)	Amount Low 0–10 (26)	Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Temperature Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Night 18h–7h mm. (35)	Sunshine 1st Hrs. (36)
London (Kew)	989.9	+8	WSW	4	c	40	85	8	5	—	—	9+	9+	1500	1	*	50	40	36	0.4	0.3	1.5
Croydon	990.3	+10	WSW	5	c	41	85	7	5	2	—	4-6	10	2500	1	*	50	39	36	1	0.2	0.9
S. Farnborough	990.7	+16	WNW	4	d₀d₀	40	85	6	5	—	—	10	10	1500	1	*	50	38	35	0.6	0.1	1.6
Boscombe Down	992.2	+18	NW	3	c	39	85	7	5	—	—	9+	9+	1500	1	*	50	38	35	0.1	—	1.9
Calshot (Sthmtn.)	992.5	+10	W'N	4	c	41	85	8	5	—	—	9+	9+	1500	1	2	50	39	37	1	Tr	1.9
Lympne	991.0	+6	WSW	3	c	37	92	8	5	3	—	4-6	9	2500	1	§3	47	37	33	2	2	0.2
Manston	989.4	+2	SW'W	4	c	40	85	7	5	—	—	10	10	2500	1	*	49	36	33	1	1	0.1
Shoeburyness	989.9	+2	SW'W	4	ir₀	41	85	7	6	7	—	7-8	9+	800	1	*	49	39	33	1	0.5	0.2
Felixstowe	988.4	-2	SW	3	r₀r₀	39	92	6	5	—	—	10	10	1500	1	3	48	38	35	1	0.2	0.1
Gorleston	987.6	-4	SW	2	o/r	38	92	6	6	—	—	10	10	1500	1	2	48	37	35	8	0.1	0.0
Mildenhall	987.3	+6	W'N	3	RR	38	97	6	6	—	—	10	10	2500	1	*	49	38	35	0.4	3	0.3
Cranwell	987.1	+10	W	1	c/r	37	97	5	5	—	—	10	10	2500	1	*	47	36	32	0.5	Tr	3.1
Birmingham	990.5	+14	NW	5	ir₀	36	92	6	6	—	—	10	10	800	1	*	47	35	34	1	0.3	1.4
Upper Heyford	990.5	+20	WNW	4	c	37	85	7	5	—	—	9+	9+	800	1	*	48	36	35	0.4	1	*
Ross-on-Wye	992.5	+14	W'N	4	c	40	65	8	5	—	—	10	10	1500	1	*	49	39	36	0.5	Tr	1.8
Hartland Point																				0.5		
Bristol	993.4	+30	W	3	c	40	75	7	5	7	—	4-6	7-8	1500	1	*	49	39	36	0.4	0.3	3.1
Portland Bill	998.9	+10	W	5	c	43	92	8	5	—	—	10	10	2500	1	4	48	40	*	—	—	*
Plymouth	997.5	+20	NNW	4	br	40	85	8	9	—	—	9	9	1500	1	2	51	39	37	0.1	6	3.4
The Lizard	999.3	+20	NW	6	bc	41	92	8	8	—	—	4-6	4-6	2500	1	3	50	39	*	2	2	3.1
Scilly (St. Mary's)	1001.3	+20	NNW	7	bc	43	65	8	8	—	—	4-6	4-6	1500	1	4	50	39	*	0.6	2	3.7
Guernsey	995.5	+10	W	4	c/pr	41	92	9	8	—	—	10	10	1500	1	4	52	41	39	3	3	0.6
Pembroke	999.7	+20	NW	6	bcg	41	97	7	5	—	—	4-6	4-6	1500	1	4	50	38	*	0.2	5	1.6
Holyhead	995.4	+16	N	7	bc	43	75	8	7	—	—	4-6	4-6	2500	1	4	48	41	39	1	2	1.3
Chester (Sealand)	992.2	+18	WNW	6	rr	39	85	6	6	2	—	9	10	1500	1	*	49	38	35	0.5	5	1.9
Manchester	989.5	+10	NW'N	5	r₀r₀	37	85	6	6	2	—	2-3	10	1500	1	*	48	34	33	0.6	4	1.9
Spurn Head	986.9	+6	NW'N	1	c	36	97	5	5	—	—	7-8	7-8	2500	1	1	42	35	*	3	Tr	1.3
Catterick	988.7	+24	N'W	5	rs	35	92	7	6	—	—	10	10	800	6	*	35	33	32	0.5	3	0.0
Tynemouth	988.5	+38	N	8	rr	40	92	6	6	—	—	10	10	800	1	4	42	38	36	7	5	0.0
St Abbs Head	993.4	+8	NNE	6	bcq	39	85	9	2	6	9	2-3	4-6	2500	1	4	39	36	*	7	4	*
Leuchars	997.1	+20	N	3	bc/bs	36	92	8	9	—	—	4-6	4-6	800	1	*	38	34	31	7	5	0.0
Renfrew (Abbots I.)	999.1	+14	NW	3	bc	36	75	8	5	3	—	2-3	4-6	2500	1	*	37	35	29	1	Tr	0.0
Eskdalemuir	994.6	+34	N	5	rs	34	92	5	5	—	—	9+	9+	800	6	*	34	32	32	2	3	0.0
Point of Ayre	996.1	+12	N'E	7	bc	41	75	8	8	4	—	1	4-6	1500	0	4	42	38	*	2	0.4	0.0
Tiree	1001.6	+8	NNW	5	bc	39	85	8	8	—	—	2-3	2-3	2500	0	*	41	36	35	—	0.3	0.0
Stornoway	1001.7	+6	NNW	4	c	35	85	7	8	—	—	7-8	7-8	2500	6	2	37	34	*	Tr	3	2.1
Dalwhinnie	*	+20	N	2	c	32	97	5	5	—	—	10	10	1500	7	*	31	29	28	0.6	1	0.0
Aberdeen	998.1	+18	N'W	2	PHR	35	92	7	6	—	—	7-8	7-8	1500	4	2	39	33	31	3	6	0.0
Wick	998.9	0	NE	2	bc	38	97	8	5	7	—	4-6	4-6	1500	6	2	38	31	*	5	4	*
Lerwick	999.8	+2	NE	1	c/pr	37	92	7	8	7	—	4-6	9	800	4	*	39	36	*	Tr	4	0.0
Blacksod Point	1007.5	+12	N	6	cq	42	85	8	9	—	—	7-8	7-8	1500	1	4	51	31	*	2	1	*
Malin Head	1003.0	+30	N	5	c/pr	40	92	7	9	—	4	7-8	9	4000	1	5	43	38	*	2	1	0.0
Aldergrove	1001.3	+20	N'E	3	bc	37	85	8	5	—	—	2-3	2-3	4000	1	*	38	35	29	2	0.3	0.0
Birr Castle	1004.5	+18	NNW	2	b	35	92	8	—	4	—	0	1	—	1	*	44	33	27	4	0.1	0.0
Valentia Obsy. †	1009.2	+16	N'E	5	b/pr	42	75	8	8	—	—	1	1	2500	1	4	46	41	37	2	1	1.0
Roches Point	1005.2	+22	NNW	6	b	40	85	8	5	—	—	1	1	4000	1	3	46	38	*	Tr	—	*

LONDON OBSERVATIONS
Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except for rainfall which is 9h—18h.

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Afternoon	Night	Temperature Day Max. °F.	Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	9h. G.M.T. % (To-day)	Visibility 9h. (To-day)
Kew	18	crr₀cm₀	cm₀bc	bccr₀c	50	40	36	0.4	0.3	1.5	.	.	5
Croydon	217	r₀r₀rdm	cm₀bcz	m₀bwcpc	50	39	36	1	0.2	0.9	.	.	6
Greenwich (Royal Observatory)	149	dc	cb	bcircm	49	39	34	0.5	1	0.7	74	78	4
City (Bunhill Row)	—	.	.	.	.	.	.	.	.	0.6	.	.	.
Westminster (St. James' Park)	27	.	.	.	49	39	37	0.7		.	80	86	.
Regents Pk. (Botanic Gardens)‡	168	.	.	.	49	38	36	—	—	0.7	77	85	.
Camden Square	110	od	bc	.	49	39	36	0.3	0.3	.	.	82	.
Kensington	80	bcpbc	bc	.	49	39	32	1	0.5	0.8	73 (18h.)	81	.
Hampstead Observatory	450	ob	bc	or	47	36	32	0.1	0.5	0.9	.	91	.

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 2nd.

SOUTH KENSINGTON. Max.	Time.	Min.	Time.
<0.3	whole	period	

KEW OBSERVATORY. Max.	Time.	Min.	Time.
0.2	17h 1st	<0.1	1-6h 2nd

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 1st January: Barom. mb.	Wind Direc.	Force	Weather	Temp. °F.	7h. G.M.T. 2nd January: Barom. mb.	Wind Direc.	Force	Weather	Temp. °F.	Past 24 Hours: Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Night mm.
Paris	996.5	SSW	4	ir₀	50	997.5	SW	4	bc	43	52	37	Tr	1
Brussels	993.6	WSW	3	r₀r₀	45	993.8	SW	5	c	41	46	39	12	5
Berlin	1004.8	SE	4	c	30	996.4	S	4	r₀r₀	37	32	30	—	8
Zürich	1009.6	SSE	1	c	37	1008.7	SSE	2	ir	37	45	34	1	1
Rome	1013.8	ENE	2	bc	48	1014.6	SE	4	c	50	.	.	—	1

EXPLANATION OF FIGURES, LETTERS, ..

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
THE BEAUFORT SCALE OF WIND is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	<1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	> 75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1½ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6¼ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30.—Code for State of Sea.
0 Calm. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 Precipitous.
4 Rough. 9 Confused.

TERMS OF SUBSCRIPTION. Single Copies, 1d. each; by post 1½d. 2/6 per month; 6/6 per quarter; 25/- per year.

METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY, LONDON, W.C.2.   N. K. JOHNSON, M.Sc., A.R.C.S., Director.

† 1 hr. observations are from Valentia W/T Station.   ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h.   § Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 3rd January, 1939

No. 28166

OBSERVATIONS at 13h. G.M.T. 2nd January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0-12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0-10 (12)	Cloud Amount Total 0-10 (13)	Height of Base (feet) (14)
1	London (Kew)	993·0	+6	W'N	3	z₀	38	92	5	5	-	-	10	10	800
	Croydon	993·2	+10	W'N	4	ir₀	38	85	5	5	2	-	9	10	1500
	S. Farnborough	994·1	+12	WNW	4	ir₀	37	92	7	5	-	-	10	10	1500
	Boscombe Down	995·9	+18	NW'N	5	ir₀	40	75	7	6	2	-	7-8	9+	1500
	Calshot (Sthmtn.)	996·1	+14	WNW	5	ir₀	42	65	7	5	-	-	9+	9+	2500
	Lympne	993·0	+8	W	3	pr	38	85	6	3	-	-	9+	9+	1500
	Manston	991·8	+6	WSW	3	z₀	39	85	6	5	-	-	10	10	2500
2	Shoeburyness	993·3	+18	WNW	3	c	39	85	6	5	-	-	10	10	1500
	Felixstowe	991·1	+4	W	3	z₀	39	85	6	5	2	-	9+	10	2500
	Gorleston	990·2	+8	NW'W	2	c	39	92	6	5	-	-	9+	9+	2500
	Mildenhall	990·0	+4	W'N	3	z₀	39	97	6	5	-	-	10	10	2500
	Cranwell	991·8	+24	NWW	4	ss	35	97	4	5	-	-	10	10	450
3	Birmingham	994·9	+20	NW	5	ir₀	36	85	5	6	-	-	10	10	450
	Upper Heyford	993·8	+14	NWW	4	rs	37	85	6	5	2	-	7-8	10	800
4	Ross-on-Wye	996·8	+16	NW	5	cq	41	65	8	5	7	-	9	9+	2500
5	Hartland Point	1001·7	+16	NW	6	[illegible]	43	75	8	8	-	-	7-8	7-8	1500
	Bristol	997·1	+18	NW'W	[illegible]	c	42	65	8	5	7	8	7-8	9+	2500
	Portland Bill	997·0	+8	WNW	[illegible]	c	44	92	8	5	-	-	7-8	7-8	2500
	Plymouth	1002·1	+16	N'W	4	bc	44	75	8	8	-	-	4-6	4-6	1500
	The Lizard	1004·5	+24	NW	6	bc	43	75	8	8	4	-	4-6	4-6	2500
	Scilly (St. Mary's)	1006·7	+22	NWN	6	bc	45	65	8	8	-	-	4-6	4-6	1500
	Guernsey	1000·4	+20	NW'W	5	c	44	75	9	8	-	-	9	9	2500
6	Pembroke	1003·0	+10	NW	6	cq	43	75	8	9	-	-	9	9	1500
7	Holyhead	1000·2	+2	N'E	6	c/pr	43	65	8	8	4	-	7-8	7-8	2500
	Chester (Sealand)	998·1	+26	WNW	6	c	41	75	8	7	3	-	4-6	7-8	2500
8	Manchester	996·4	+30	NW'N	5	bc	39	85	7	8	7	-	2-3	4-6	2500
10	Spurn Head	989·9	+4	N'E	5	cq	41	97	6	8	2	-	7-8	10	1500
	Catterick	994·9	+22	N'W	4	c	36	85	7	5	4	2	4-6	7-8	1500
	Tynemouth	994·5	+20	N	6	cq	40	85	7	2	-	-	7-8	7-8	1500
11	St. Abbs Head	998·0	+12	NNE	5	c/phr	39	85	8	3	6	-	7-8	9+	1500
	Leuchars	999·8	+6	NW	1	bc	37	85	8	8	7	3	2-3	4-6	1500
12	Renfrew (Abbots I.)	1001·6	+10	NW'N	3	c	41	75	9	4	7	4	4-6	7-8	4000
	Eskdalemuir	998·1	+8	N'W	5	bc	34	85	7	5	7	5	1	2-3	1500
	Point of Ayre	1000·5	+12	N'E	5	bc	42	75	8	2	4	3	1	4-6	2500
13A	Tiree	1003·5	0	NNW	6	bc/pr	40	85	8	8	-	-	4-6	4-6	1500
13B	Stornoway	1004·5	+20	N	6	pr	34	92	7	8	-	-	9	9	2500
15	Dalwhinnie	1002·2	+6	N	2	c	33	97	7	4	1	2	4-6	9+	2500
	Aberdeen	1000·2	+6	NNW	3	bc	35	97	7	8	-	3	2-3	2-3	4000
	Wick	1000·8	-2	WNW	2	c	32	97	8	5	7	9	4-6	9+	1500
16	Lerwick	1001·3	+2	S	4	c	40	75	8	8	7	1	4-6	7-8	1500
17	Blacksod Point	1010·5	+12	N	5	bc	40	92	8	9	-	-	4-6	4-6	1500
18	Malin Head	1004·4	0	N'W	5	c/pr	40	85	8	2	-	4	4-6	7-8	5700
	Aldergrove	1003·2	+6	NW'N	4	c/pr	39	85	8	8	-	3	7-8	7-8	1500
19	Birr Castle	1007·8	+10	NNW	2	c/pr	39	85	8	8	-	-	7-8	7-8	1500
20	Valentia Obsy. †	1012·4	+6	N'W	6	c/phr	44	65	8	8	-	-	7-8	7-8	4000
	Roches Point	1009·1	+18	NW	5	bc	44	75	8	3	4	-	2-3	2-3	2500

OBSERVATIONS at 18h. G.M.T. 2nd January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0-12 (18)	Weather (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0-10 (26)	Cloud Amount Total 0-10 (27)	Height of Base (feet) (28)	State of Ground 0-9 (29)	Sea 0-9 (30)
London (Kew)	998·0	+36	NW'W	4	c/pr	38	85	7	5	-	-	10	10	1500	1	*
Croydon	998·0	+36	NWW	4	r₀r₀	38	85	5	6	2	-	9+	10	1500	1	*
S. Farnborough	999·0	+30	NW'W	4	c/r	38	85	7	5	-	-	10	10	2500	1	*
Boscombe Down	1000·9	+32	NW'N	4	c/r	39	75	8	5	-	-	9+	9+	1500	1	*
Calshot (Sthmtn.)	1000·2	+30	NW	5	c	41	75	7	5	1	-	7-8	10	2500	1	3
Lympne	996·3	+22	NWW	4	id₀	37	92	4	5	-	-	10	10	800	1	§ 2
Manston	994·9	+22	W'N	4	ir₀	38	92	5	5	2	-	9	10	800	1	*
Shoeburyness	996·3	+26	WNW	3	c/r	37	92	6	5	-	-	10	10	1500	1	*
Felixstowe	994·1	+20	NW	5	r₀r₀	38	92	6	5	-	-	10	10	1500	1	3
Gorleston	992·3	+10	WNW	3	c/r	37	92	6	6	-	-	10	10	2500	1	2
Mildenhall	994·7	+22	NW	5	z₀	38	92	6	6	2	-	7-8	10	1500	1	*
Cranwell	996·6	+28	NNW	5	z₀	37	85	6	5	-	-	9+	9+	2500	1	*
Birmingham	1000·5	+34	NW	4	bc	36	85	7	5	-	-	2-3	2-3	1500	1	*
Upper Heyford	999·5	+30	NW	4	z₀	37	85	6	5	-	-	4-6	4-6	800	1	*
Ross-on-Wye	1001·7	+26	NNW	2	bc	39	65	8	5	-	-	2-3	2-3	2500	1	*
Hartland Point	1005·2	+18	NW	6	c	42	75	8	8	-	-	7-8	7-8	1500	1	4
Bristol	1002·3	+34	NW	4	bc	39	65	7	8	4	-	2-3	2-3	2500	1	*
Portland Bill	1002·0	+36	NW	4	bc	42	85	8	1	-	-	4-6	4-6	2500	1	4
Plymouth	1005·7	+24	NW'N	3	c/phr	42	75	6	8	-	-	4-6	4-6	1500	1	2
The Lizard	1007·6	+16	NW	5	bc	42	85	8	8	-	-	4-6	4-6	2500	1	3
Scilly (St. Mary's)	1009·0	+10	NW'N	6	c	44	65	8	8	4	-	4-6	7-8	1500	1	4
Guernsey	1003·8	+20	NW'W	5	c/phr	42	75	8	8	-	-	9	9	2500	1	5
Pembroke	1006·2	+14	NW	6	cq	41	75	7	8	-	-	9	9	1500	1	3
Holyhead	1002·9	+18	NW'N	5	c/pr	41	75	8	9	-	-	7-8	7-8	2500	1	4
Chester (Sealand)	1001·9	+26	W'N	4	bc	38	75	7	5	-	-	2-3	2-3	2500	1	*
Manchester	1000·2	+18	NW	4	z₀	36	85	6	5	4	-	1	2-3	4000	1	*
Spurn Head	993·8	+14	NNW	6	pr	39	85	7	8	-	-	10	10	800	1	4
Catterick	999·0	+26	N'W	4	q	35	85	7	8	6	-	4-6	7-8	1500	4	*
Tynemouth	998·4	+20	N	6	c/pr	38	85	7	8	-	-	9	9	1500	1	3
St. Abbs Head	999·9	+4	NNE	4	c/phr	39	75	8	3	6	-	4-6	9	1500	1	4
Leuchars	1001·9	+10	WNW	3	c	35	85	8	5	3	-	2-3	7-8	1500	1	*
Renfrew (Abbots I.)	1002·5	+6	WNW	2	c	35	85	8	5	3	-	7-8	9+	4000	1	*
Eskdalemuir	1002·5	+20	-	0	bc	30	85	8	5	7	-	1	2-3	1500	7	*
Point of Ayre	1002·8	+2	N'E	4	bc	40	75	8	8	4	-	4-6	4-6	2500	1	3
Tiree	1005·6	+10	NNW	6	c	39	65	8	8	-	-	4-6	7-8	1500	0	5
Stornoway	1006·0	+12	N	4	c	35	85	7	5	1	-	2-3	10	2500	6	2
Dalwhinnie	1003·4	+6	-	0	c	31	92	6	5	6	-	7-8	9+	2500	7	*
Aberdeen	1001·6	+10	NW	3	b	33	97	6	5	-	3	1	1	4000	4	3
Wick	1001·1	0	W	3	c	28	92	6	5	7	8	4-6	7-8	1500	8	2
Lerwick	1002·0	+4	SSE	3	c	40	75	8	5	7	-	4-6	7-8	1500	4	*
Blacksod Point	1011·2	+10	N	3	bc	39	85	8	3	3	-	2-3	4-6	2500	1	3
Malin Head	1006·8	+22	N	5	bc	41	65	8	2	-	2	4-6	4-6	5700	0	5
Aldergrove	1005·6	+16	N	3	pr	36	92	7	8	-	-	9	9	800	1	*
Birr Castle	1008·6	+8	NNW	2	c	35	97	8	5	-	-	7-8	7-8	2500	1	*
Valentia Obsy. †	1013·9	+14	N'W	5	c/pr	43	65	8	8	-	-	7-8	7-8	2500	1	3
Roches Point	1011·5	+16	NNW	4	bc	39	85	8	5	-	-	2-3	2-3	2500	1	3

PAST 24 HOURS. — Weather

Stations	7h.—13h. 2nd. (37)	13h.—18h. 2nd. (38)	18h. 2nd. to 1h. 3rd. (39)	1h.—7h. 3rd. (40)
London (Kew)	ccm₀	cm₀cpr₀c	cbcbx	bbccs₀x
Croydon	cir₀m₀	idmr₀r₀	r₀r₀bcw	bcbwxs₀
S. Farnborough	r₀cr₀s₀ph	ir₀r₀r₀c	c,bx	bx,cs,sbc
Boscombe Down	cbccir₀	cir₀c	cbbc	bccx
Calshot (Sthmtn.)	ccir₀	cir₀c	cbcb	bwc
Lympne	cd₀m₀pr	cm₀mid₀	cir₀mbcm	cbm₀x
Manston	cm₀	omqir₀	cir₀m₀c	c,bm₀
Shoeburyness	cir₀cm	m₀ir₀c	cm₀x	cm₀xbcm
Felixstowe	orr₀id₀m	cm₀cr₀r₀	cr₀r₀m₀c	c,b
Gorleston	oir₀cz₀	cz₀or₀	cpr₀c	cpr₀q
Mildenhall	ir₀cm₀	cmr₀r₀ir₀r₀	cm₀cbc	bm₀x
Cranwell	cm₀omm	ossmcm	cm₀	bm₀x
Birmingham	orsr₀	or₀rsbc	bbc	bcps
Upper Heyford	cd₀dr₀r₀	cr₀s₀ir₀	bcbm₀	bccpsbc
Ross-on-Wye	cq	cqc	bcb	bbc
Hartland Point	c	c	cph	bccp
Bristol	cbcp₀q	cbcq	bcbbcw	bbcbx
Portland Bill	c	cbc	bc	bcc
Plymouth	cphrbc	bcphr	bccphrq	bccprq
The Lizard	prbcq	phrbc	prcbc	bcq
Scilly (St. Mary's)	cphr₀	bccp₀	cp₀bc	bcc
Guernsey	c	cphrq	cbc	
Pembroke	bcpr₀cq	cq	cqbc	cbcq
Holyhead	bcph₀	ph,prc	cprh₀b	bbc
Chester (Sealand)	crrmr₀c	c, b	bcbwbcm	bcpscprs
Manchester	cm₀cr₀rsrs	bcbm	bm₀b	b,cs,s₀m
Spurn Head	bprfc	cprq	prhqc	bcq
Catterick	or₀s₀bc	prsbc	bbc	bcb
Tynemouth	orrcpq	crhq	cprh	bc
St. Abbs Head	phrc	phrc	cPHR	cphr
Leuchars	cbc	bcjpbc	bcxcx	cxbcx
Renfrew (Abbots I.)	bccbc	bcc	bcxcx	cx
Eskdalemuir	irs₀bc	bcb	[illegible]	bcx
Point of Ayre	bc	bc	bcph₀	prcbc
Tiree	bcc	cprps	cpsc	cbc
Stornoway	clphr	cpr	cps	cbc
Dalwhinnie	c	ciso	*	css
Aberdeen	cr₀ph	bcbm₀	bccbc	bcbcx
Wick	bcc	cm₀	r₀rs₀	rsrs
Lerwick	cirs₀	c	bccirs	cirsbcy
Blacksod Point	pheq / phcq	phrcq	phrcq	prhcq
Malin Head	cpr₀c	cphrybc	cphr₀ye	cpshbc
Aldergrove	pr₀prs₀ph	bcprs₀pr	pr₀,ps₀b,c	cpsbc
Birr Castle	bbccpr	c	c	cbcx
Valentia Obsy. †	phrqc	bcpr₀c	bccir₀	ir₀c
Roches Point	bbc	bc	bcb	bcc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog ,, less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf. fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s₀, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r₀, slight rain. rr, continuous rain.
<, less than (for cloud height). ⁄ gale.
⊕, Solar halo. Ⓘ lunar halo. Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27,

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8)

Cloud form abbreviations:— Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus, As: Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. ,, wet.
2 .. ,, flooded.
3 .. ,, frozen hard and dry.
4 .. ,, partly covered with snow or hail.
5 .. ,, covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. ,, covered with snow, less than 6 ins., deep but ground not frozen.
8 .. ,, covered with snow, less than 6 ins., but ground frozen
9 .. ,, covered with snow greater than 6 ins. deep.

NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2*

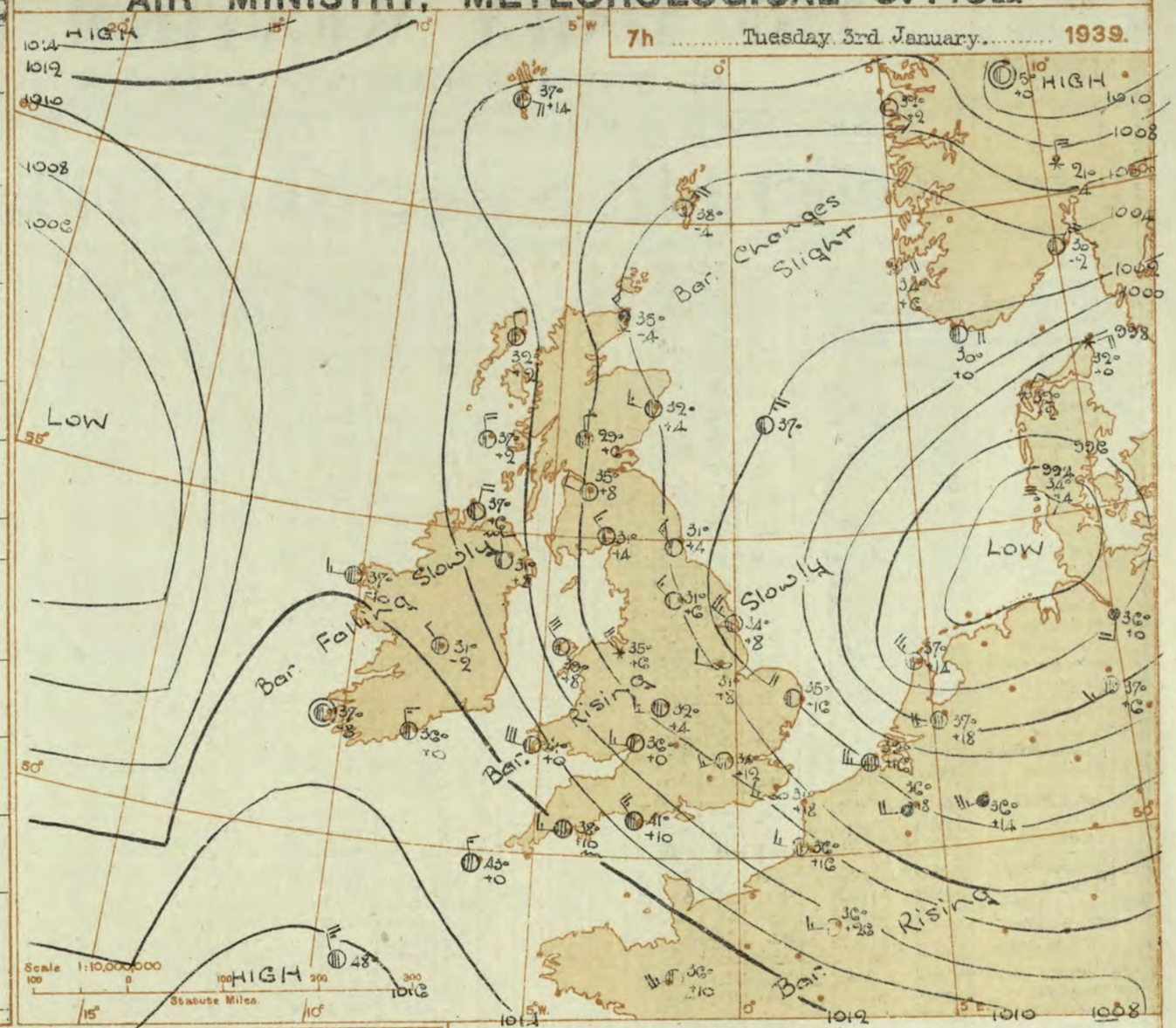
§ Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 2nd January 1939

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F.) Min. 9h. 1st to 9h. 2nd	Temperature. (°F.) Max. 9h.—17h. 2nd	Rainfall. (mm.) Night. 17h. 1st to 9h. 2nd	Rainfall. (mm.) Day. 9h.—17h. 2nd	Sunshine (hrs) Sunrise to Sunset. 2nd
1	Tunbridge W.	od.o	od.o	35	44	Trace	Trace	0.0
	Bournemouth	bbc	cbc	39	44	0.3	-	3.7
	Ventnor ...	pobo	opo	39	42	Trace	Trace	1.6
	Southsea ...	cbcc	c.rc	40	42	0.6	0.2	0.2
	Bognor Regis	cbcco	oir	40	42	1	Trace	0.1
	Littlehampton	cbcc	c.r.	40	41	1	0.2	0.2
	Worthing ...	cbo.	cd.	40	42	0.5	Trace	0.2
	Brighton ...	cdc	cdc	41	42	0.4	0.2	0.1
	Eastbourne† ...	cor.o	or.o	41	44	7	0.3	0.3
	Hastings† ...	co	ood.	40	45	6	Trace	0.2
	Folkestone ..	m.bcco	oor.o	39	42	3	Trace	0.1
	Dover ...	bcco	od.o	40	41	4	Trace	0.1
	Deal	co	od.o	39	42	2	Trace	0.3
	Ramsgate ...	co	go	36	41	-	-	0.0
	Margate ...	c	c	38	41	Trace	-	0.0
2	Southend ...	om	oor	38	39	0.5	Trace	0.0
	Clacton-on-Sea	cbcc	cor	37	40	0.5	0.2	0.1
	Dovercourt ...	roc	roc	37	39	Trace	1	0.0
	Lowestoft ...	om.id	c	37	39	2	Trace	0.0
	Skegness ...	mcbco	orro	34	41	-	3	0.2
	Mablethorpe...	bcmor	or	32	41	Trace	3	0.0
	Cleethorpes ...	or	oro	33	41	0.3	2	0.0
3	Leamington S.	odo	oro	37	39	0.2	1	0.0
4	Cheltenham†	oir	oroc	37	42	Trace	2	0.0
5	Bath	c	c	40	43	0.3	-	0.0
	Weymouth ...	b	b	39	45	-	-	6.8
	Jersey ...	rcbc	cbc	41	47	5	-	3.0
	Torquay ...	bbccpr	cpgbc	39	43	1	4	2.1
	Falmouth	cbchb	bhbcc	40	44	5	0.3	4.5
	Penzance ...	cphbc	bcphc	40	47	3	1	3.8
	St. Ives ...							
	Bude... ...	cq	bcq	37	45	8	-	0.0
	Ilfracombe ...	ocpo	coiro	40	44	4	5	0.2
6	Aberystwyth	c	bccpr	38	43	-	1	0.6
7	Llandudno ...	c	cbc	39	42	3	-	0.4
	Colwyn Bay...	cbc	bcb	39	42	4	-	0.0
	Rhyl	c	cbc	38	44	3	-	0.7
8	Wallasey ...	bcp	bc	38	40	8	-	2.4
	Southport ...	p.cbc	bcbbc	38	41	3	-	3.3
	Blackpool ...	ovcbc	bcm	38	41	5	Trace	2.8
	Morecambe ...	..						
9	Ilkley... ...	orso	c	34	38	4	1	0.3
	Harrogate ...	o5r.	cr.c	32	36	2	2	0.9
10	Berwick-on-T.	cirh	prhbc	36	40	9	2	0.4
11	Dunbar ...	cr.	cprs	36	40	4	3	0.9
12	Troon... ...	cbc	cbcco	34	41	Trace	-	4.4
	Douglas ...	cir	b	37	41	0.5	-	5.7

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 17h.–9h.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 3rd January, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Wind light northerly at first, freshening from south to-night; fair at first, some rain or sleet later; temperature rising.
5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England	Wind freshening from south and veering to west later; rain or sleet spreading from the West, brighter intervals later; temperature rising.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	As 1 - 4.
12 S.W. Scotland & Isle of Man.	As 5 - 8.
13 A. W. Scotld. / B. N.W. Scotland.	Wind freshening from an easterly direction; fair at first, but sleet or snow later; rather cold.
14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 5 - 8.

H.M. Stationery Office Press, Kingsway, W.C.2.

GENERAL INFERENCE.

A ridge of high pressure over Ireland is moving eastwards followed by a new depression. Weather will be mainly fair apart from slight sleet showers to-day but a belt of rain or sleet will move across the country during the night. The temperature will rise during the rain or sleet.

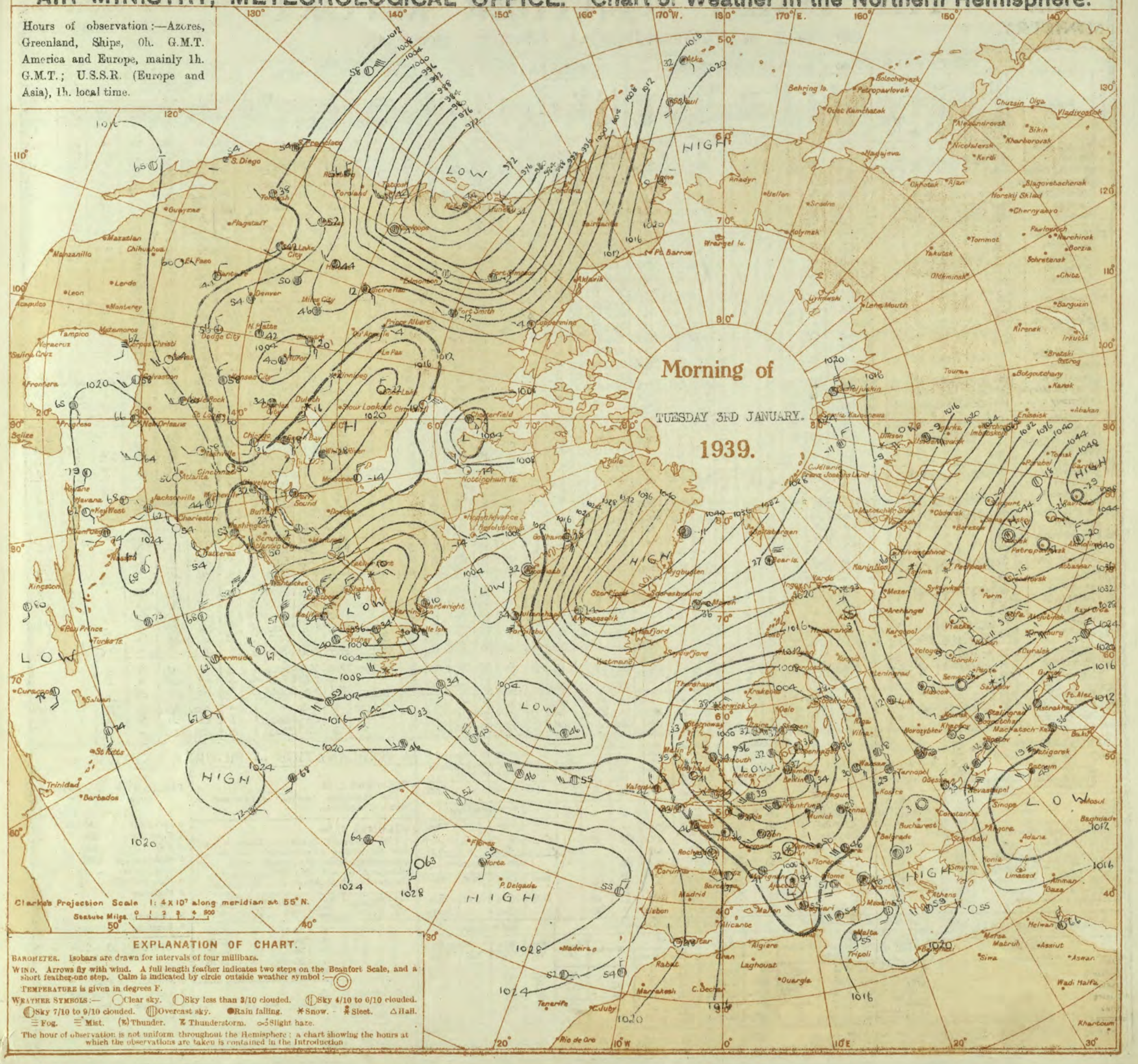
FURTHER OUTLOOK.

None issued.

Forecasts issued at 1000 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S.
Director.

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 3rd January, 1939

No. 28166

OBSERVATIONS at 1 hr. G.M.T. 3rd January

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1004.3	+26	W	3	bc	34	85	7	5	4	–	2-3	2-3	2500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1003.3	+30	WNW	4	z.	35	85	6	5	–	–	7-8	7-8	1500
	Manston	154	1001.2	+26	W'N	5	z.	36	85	6	5	–	–	10	10	1500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	998.1	+24	NW'W	4	c/pr	36	92	7	8	–	–	7-8	7-8	2500
	Mildenhall	19	1001.1	+26	WNW	4	bc	34	92	7	5	–	–	2-3	2-3	2500
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1009.0	+10	NW	4	c/phr	41	75	8	8	2	–	7-8	9+	1500
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32	1006.1	+22	NW	5	bc	41	92	8	1	–	–	2-3	2-3	2500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard	240	1010.6	+10	NW	5	bc	41	85	8	8	–	–	4-6	4-6	2500
	Scilly (St. Mary's)	163	1012.1	+6	NNW	6	bc	43	75	8	8	–	–	4-6	4-6	1500
	Guernsey	175	1008.5	+18	NWW	4	bc	42	65	9	1	–	–	2-3	2-3	2500
6	Pembroke	142	1009.2	+12	NNW	5	bcq	41	85	8	2	–	–	4-6	4-6	1500
7	Holyhead	26	1006.0	+10	NW	7	b	41	65	8	2	–	–	1	1	4000
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	999.3	+18	WNW	6	bc	36	92	6	3	8	–	2-3	4-6	800
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	108	1002.1	+14	NW	3	bs/phr	34	97	6	2	–	–	4-6	4-6	1500
11	St Abbs Head	280	1001.8	+6	WNW	3	bc	36	85	7	7	6	9	2-3	4-6	2500
	Leuchars	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1004.3	+2	N'W	4	pr	39	75	8	8	–	–	7-8	7-8	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1007.3	+8	NNW	4	c	33	75	8	5	1	–	4-6	10	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1003.3	+8	NW	2	rs	34	97	7	5	2	–	9	10	1500
16	Lerwick	156	1003.1	+2	ENE	4	rs	38	75	7	8	7	–	4-6	9	800
17	Blacksod Point	18	1012.6	0	NW	5	c	40	92	8	9	–	–	7-8	7-8	1500
18	Malin Head	84	1007.9	+2	N.	4	c	39	65	8	2	5	–	4-6	7-8	5700
	Aldergrove	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1014.0	0	NW	4	c	42	97	8	8	–	–	9	9	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 3rd January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1006.9	+2	WSW	2	c	35	85	8	5	–	–	7-8	7-8	2500	3	*
Croydon	1007.1	+12	W'S	3	c/s	34	92	6	5	4	–	7-8	9	5700	1	*
S. Farnborough	1007.5	*	W	3	bc	32	92	6	5	–	–	4-6	4-6	4000	4	*
Boscombe Down	1008.7	–8	W'N	3	c	33	92	7	5	–	–	7-8	7-8	2500	1	*
Calshot (Sthmtn.)	1009.2	+14	W'N	4	c	37	85	8	5	–	–	9	9	4000	1	2
Lympne	1006.9	+18	WNW	3	z.	31	85	6	–	4	–	0	Tr	—	3	§1
Manston	1005.4	+18	W'N	4	z.	33	85	6	5	–	–	2-3	2-3	1500	1	*
Shoeburyness	1005.3	+14	W	3	bc	38	85	6	–	3	–	0	2-3	—	1	*
Felixstowe	1003.9	+12	W'N	3	b	34	85	7	–	–	–	0	0	—	1	3
Gorleston	1002.4	+16	NW'W	4	bc	35	92	7	8	–	–	4-6	4-6	4000	1	3
Mildenhall	1003.9	+6	W	3	z.	32	92	6	5	–	–	Tr	Tr	4000	1	*
Cranwell	1004.6	+8	W'N	2	z.	31	92	5	–	–	–	0	0	—	1	*
Birmingham	1006.8	+4	W	3	c	32	85	7	5	7	–	4-6	7-8	2500	7	*
Upper Heyford	1006.5	+8	W	3	bc	32	85	8	8	–	–	4-6	4-6	2500	4	*
Ross-on-Wye	1008.0	0	WNW	3	bc	36	75	8	5	7	–	1	2-3	2500	1	*
Hartland Point	1010.8	0	NW	4	c/pr	41	65		8	7	–	7-8	9+	800	1	3
Bristol	1008.6	+2	W	4	bc	36	75	8	5	–	–	2-3	2-3	2500	3	*
Portland Bill	1009.3	+10	NW	5	c	41	92	8	5	–	–	10	10	2500	1	4
Plymouth	1012.1	+10	W	3	c/pr	38	85	6	5	–	–	7-8	7-8	800	1	1
The Lizard	1012.8	+4	NW'W	5	bc	42	85	8	8	–	–	4-6	4-6	2500	1	3
Scilly (St. Mary's)	1013.5	0	NNW	3	c	43	65	8	8	–	–	7-8	7-8	1500	1	3
Guernsey																
Pembroke	1010.3	0	WNW	6	bcq	41	75	8	8	2	–	4-6	4-6	1500	1	3
Holyhead	1007.5	+8	NW	6	bc	39	65	8	8	–	–	4-6	4-6	2500	1	3
Chester (Sealand)	1005.9	+6	NW'W	4	prs	35	92	5	9	–	–	9+	9+	1500	7	*
Manchester	1005.4	+6	W	1	is.	32	97	5	5	–	–	10	10	1500	4	*
Spurn Head	1001.4	+8	NW	5	bc	34	92	7	4	4	–	2-3	4-6	2500	5	3
Catterick	1004.1	+6	NW'W	3	b	31	85	7	5	4	–	Tr	Tr	2500	4	*
Tynemouth	1003.4	+4	NW	3	bc	31	85	7	8	–	–	4-6	4-6	2500	3	2
St Abbs Head	1003.9	+8	WNW	3	phr	35	92	6	9	6	–	4-6	7-8	1500	6	3
Leuchars	1004.9	+12	NW	1	c	33	85	8	4	7	–	4-6	7-8	2500	3	*
Renfrew (Abbots I.)	1005.8	+8	WNW	2	c	35	75	7	5	–	–	9+	9+	4000	3	*
Eskdalemuir	1005.4	+4	NW	3	bc	31	85	8	5	–	–	4-6	4-6	1500	8	*
Point of Ayre	1006.2	+8	N'E	5	bc	38	85	8	8	–	–	4-6	4-6	2500	1	3
Tiree	1008.2	+2	NNW	4	bc	37	75	8	8	–	–	4-6	4-6	2500	0	*
Stornoway	1008.4	+2	NNW	2	bc	32	65	8	5	–	–	4-6	4-6	2500	6	1
Dalwhinnie	1006.7	+6	N	2	c	29	92	6	5	6	–	7-8	9+	1500	7	*
Aberdeen	1004.2	+4	WNW	3	bc	32	92	7	5	–	–	4-6	4-6	2500	3	1
Wick	1003.4	–4	NW	3	rs	35	97	7	5	2	–	9	10	1500	6	2
Lerwick	1003.2	–4	NE	5	bc	38	55	8	5	–	–	4-6	4-6	1500	4	*
Blacksod Point	1011.7	–10	W	3	c	37	97	8	5	–	–	7-8	7-8	1500	1	2
Malin Head	1009.6	+6	N	3	bc	37	75	8	8	–	–	4-6	4-6	5700	4	4
Aldergrove	1009.1	+8	NNW	2	bc	31	92	7	5	–	–	2-3	2-3	2500	4	*
Birr Castle	1011.7	–2	NW	1	bc	31	92	8	–	4	–	0	2-3	—	1	*
Valentia Obsy. †	1013.4	–8	—	0	c	37	92	7	5	–	–	9+	9+	4000	1	2
Roches Point	1013.5	0	NNW	3	c	36	92	8	5	–	–	9+	9+	2500	1	2

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 2nd Hrs. (36)
London (Kew)	40	33	28	0.1	Tr	0.0
Croydon	41	32	29	1	Tr	0.0
S. Farnborough	40	31	27	1	0.5	0.0
Boscombe Down	40	31	27	Tr	—	0.0
Calshot (Sthmtn.)	42	33	30	Tr	—	0.4
Lympne	39	31	27	0.1	1	0.0
Manston	40	33	30	0.1	Tr	0.0
Shoeburyness	41	33	26	0.1	—	0.0
Felixstowe	39	33	31	0.4	Tr	0.2
Gorleston	39	34	33	1	1	0.0
Mildenhall	39	30	28	1	—	0.0
Cranwell	37	31	27	3	—	0.0
Birmingham	38	31	27	3	1	0.0
Upper Heyford	38	32	27	1	0.2	*
Ross-on-Wye	41	34	27	-	—	0.0
Hartland Point	43	38	34	–	1	2.2
Bristol	43	31	25	Tr	—	1.1
Portland Bill	50	38	*	-	—	*
Plymouth	45	38	31	0.6	4	5.9
The Lizard	44	37	*	1	0.6	4.3
Scilly (St. Mary's)	45	42	*	Tr	Tr	4.5
Guernsey				0.5		
Pembroke	43	39	*	Tr	—	3.3
Holyhead	44	37	35	1	0.5	2.4
Chester (Sealand)	41	33	25	0.1	2	3.0
Manchester	40	29	21	1	1	1.6
Spurn Head	(41)	34	*	2	2	0.0
Catterick	37	30	25	5	—	1.4
Tynemouth	43	31	29	3	1	0.6
St Abbs Head	40	34	*	2	0.5	*
Leuchars	38	29	20	-	—	3.1
Renfrew (Abbots I.)	39	29	25	Tr	—	3.7
Eskdalemuir	35	21	14	1	—	2.5
Point of Ayre	42	36	*	-	0.4	4.9
Tiree	41	34	33	1	0.2	2.0
Stornoway	36	31	*	7	0.2	0.0
Dalwhinnie	34	28	25	Tr	7	0.2
Aberdeen	36	29	27	2	—	1.7
Wick	33	28	*	-	10	*
Lerwick	41	34	*	0.6	0.2	0.0
Blacksod Point	*	35	*	2	1	*
Malin Head	42	34	*	1	1	1.1
Aldergrove	40	29	21	1	1	3.0
Birr Castle	40	30	21	Tr	—	2.4
Valentia Obsy. †	45	35	31	3	1	1.7
Roches Point	45	35	*	–	—	*

LONDON OBSERVATIONS

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except for rainfall which is 9h—18h.

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew	18	ccm.	cm.cpcc	cbcbx[illegible]	40	33	28	0.1	Tr	0.0	.	.	5
Croydon	217	cirom.	id.m[illegible]	rcbcwxs	41	32	29	1	Tr	0.0	.	..	6
Greenwich (Royal Observatory)	149	cm	cdm	cbcxcgm	40	32	27	0.3	Tr	0.0	86	79	4
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St James' Park)	27	*	*	*	41	33	26	0.2		0.0	88	90	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	40	33	29	1	0.5	0.0	91	79	*
Camden Square	110	cd	od	*	41	33	29	0.3	—	*	*	79	*
Kensington	80	c	cr	*	40	33	27	0.1	0.2	0.0	At 18h. 81	81	*
Hampstead Observatory	450	od	or	cosx	38	31	25	0.1	0.3	*	*	91	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 3rd

South Kensington Max.	Time.	Min.	Time.
0.3	18-19h 2nd	<0.3	3-5h 3rd

Kew Observatory Max.	Time.	Min.	Time.
0.2	19h 2nd	<0.1	5h 3rd

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 2nd January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 3rd January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris	1000.6	W	4	bc	41	1009.1	W	3	b	36	45	36	9	0.4
Brussels	995.1	SSW	4	ir.	39	1003.1	W	4	ir.	36	41	36	3	3
Berlin	1000.1	SSW	4	c	37	1000.6	S	4	bc	36	41	34	0.1	1
Zurich	1007.1	SE	2	o	37	1010.7	WSW	4	rs	36	41	34	2	1
Rome	1012.2	SSE	6	c	57	1007.8	E'S	7	o	59	*	*	—	2

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
THE BEAUFORT SCALE OF WIND is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	<1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	> 75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 „
2 Fog	550 „
3 Moderate fog	1,100 „
4 Mist or haze	1½ miles.
5 Poor visibility	2½ „
6 Moderate „	6¼ „
7 Good „	12½ „
8 Very good „	31 „
9 Excellent „	beyond 31m.

COLUMN 30.—Code for State of Sea.

0 Calm. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 Precipitous.
4 Rough. 9 Confused.

TERMS OF SUBSCRIPTION. Single Copies, 1d. each: by post 1½d. 2/6 per month; 6/6 per quarter; 25/- per year.

METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY, LONDON, W.C.2. N. K. JOHNSON, M.Sc., A.R.C.S., Director

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

Page I.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 4th January, 1939.

No. 28167

OBSERVATIONS at 13h. G.M.T. 3rd January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1008.9	+8	W	2	zo	38	75	5	5	-	-	9	9	2500
	Croydon	1009.2	+12	WNW	4	zo	37	85	5	5	-	-	4-6	9+	1500
	S. Farnborough	1005.5	+6	W'N	4	c	39	65	8	5	4	-	4-6	7-8	4000
	Boscombe Down	1010.4	-6	NW'W	3	bc	37	65	7	-	3	4	0	4-6	-
	Calshot (Sthmtn.)	1010.6	+10	WNW	4	bc	40	55	8	2	-	6	Tr	4-6	4000
	Lympne	1008.6	+4	WNW	3	zo	37	75	6	-	-	-	0	0	-
	Manston	1007.5	+10	WNW	4	zo	37	75	6	5	-	-	2-3	2-3	1500
2	Shoeburyness	1008.0	+10	WNW	3	bc	38	75	7	7	-	-	4-6	4-6	2500
	Felixstowe	1006.8	+12	WNW	3	b	37	75	8	1	-	-	Tr	Tr	2500
	Gorleston	1005.5	+10	NW	4	bc	37	85	5	5	3	-	2-3	4-6	2500
	Mildenhall	1006.7	+10	W	3	zo	36	85	6	-	-	-	0	0	-
	Cranwell	1007.0	+8	WNW	2	m	37	85	4	-	-	-	0	0	-
3	Birmingham	1008.3	+4	NW	4	bc	35	85	6	5	-	-	4-6	4-6	2500
	Upper Heyford	1008.9	+6	NW'W	4	bc	37	75	8	5	7	6	4-6	4-6	2500
4	Ross-on-Wye	1010.0	+4	W	3	c	38	65	8	8	-	3	1	7-8	2500
5	Hartland Point	1012.1	+2	NW	3	c	41	55	8	3	6	2	2-3	7-8	1500
	Bristol	1010.8	+6	W'N	4	c	38	75	8	4	7	6	2-3	7-8	2500
	Portland Bill	1010.6	+10	NW	5	c	41	85	8	5	-	-	10	10	2500
	Plymouth	1012.9	+2	W	4	bc	44	55	8	2	9	-	2-3	4-6	1500
	The Lizard	1013.7	+2	WNW	3	c	44	85	8	8	6	-	4-6	7-8	2500
	Scilly (St. Mary's)	1013.5	-6	W'N	2	c	46	75	8	8	2	-	2-3	9+	2500
	Guernsey	1012.7	+6	WNW	3	c/pr	42	85	9	8	2	-	4-6	10	2500
6	Pembroke	1012.2	+4	WNW	3	bcq	40	75	8	7	7	1	2-3	4-6	2500
7	Holyhead	1009.4	+6	NWN	4	c	40	75	8	8	8	6	7-8	9+	4000
	Chester (Sealand)	1008.9	+12	W'S	3	bcjp	37	85	7	3	-	-	4-6	4-6	1500
8	Manchester	1008.3	+6	WN	3	bcf	34	92	3	5	-	1	1	2-3	2500
10	Spurn Head	1005.5	+14	NW'W	5	bc	36	85	6	4	4	-	2-3	4-6	2500
	Catterick	1006.9	+10	W'N	2	b	36	75	8	5	4	-	1	1	4000
	Tynemouth	1006.3	+10	W	3	bc	34	85	5	8	-	-	4-6	4-6	2500
11	St. Abbs Head	1006.3	+6	WNW	4	c	36	75	9	8	6	-	4-6	7-8	1500
	Leuchars	1006.8	+6	WSW	3	bc	37	75	8	-	5	3	0	4-6	-
12	Renfrew (Abbots I.)	1008.2	+10	WNW	2	c	37	75	8	5	3	5	2-3	7-8	4000
	Eskdalemuir	1007.9	+6	NWW	1	b	28	85	7	5	-	-	1	1	5700
	Point of Ayre	1008.3	+6	N'W	3	bc	40	65	8	8	7	4	1	4-6	2500
13A	Tiree	1008.9	0	WNW	2	bc	38	65	9	2	3	-	2-3	4-6	2500
13B	Stornoway	1008.8	0	WNW	3	bc	33	85	9	5	-	-	4-6	4-6	4000
15	Dalwhinnie	*	+4	-	0	b	26	92	8	-	-	1	0	*	-
	Aberdeen	1005.8	+14	NW	4	c	33	85	7	9	9	3	2-3	7-8	1500
	Wick	1005.3	+4	NW	3	c	33	97	7	5	7	9	4-6	7-8	1500
16	Lerwick	1004.7	+2	ESE	4	c/ps	36	85	8	8	7	-	4-6	7-8	1500
17	Blacksod Point	1003.2	-20	SE	3	c	39	92	9	-	2	-	0	10	-
18	Malin Head	1009.5	-8	NW	1	c	39	75	8	8	7	-	4-6	7-8	5700
	Aldergrove	1010.3	-2	W'S	2	c	33	85	8	3	-	3	Tr	9+	1500
19	Birr Castle	1011.1	-6	SSE	1	c	35	92	7	5	-	-	10	10	1500
20	Valentia Obsy. †	1008.0	-36	SE'S	4	c/d	44	85	8	5	-	-	9+	9+	1500
	Roches Point	1011.4	-18	S	2	c	42	75	8	5	7	-	4-6	9+	1500

OBSERVATIONS at 18h. G.M.T. 3rd January — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.–13h. 3rd (37)	Weather 13h.–18h. 3rd (38)	Weather 18h. 3rd to 1h. 4th (39)	Weather 1h.–7h. 4th (40)
London (Kew)	1011.1	+6	SW'W	2	zo	36	75	6	-	5	-	0	2-3	-	1	*	bbccmo	cbcbzo	bbccmo	cSoSSoro
Croydon	1010.6	+6	W'S	3	m	37	75	4	5	-	-	Tr	Tr	4000	1	*	cb,cmo	czobz	bcmox	oSoSoror
S. Farnborough	1011.6	+10	W'S	1	zo	32	85	6	-	7	-	0	7-8	-	1	*	bcvcbc	bccbcx	bccxss	cssrrroc
Boscombe Down	1011.8	+6	W'S	2	bc	32	85	7	-	7	-	0	2-3	-	3	*	cxbc	bccbc	bccm.ss	cRRroro
Calshot (Sthmtn.)	1012.3	+8	W'S	2	bc	35	75	8	-	4	1	0	2-3	-	1	1	cbcbbcy	bcyc	bwbcxbirs	orroRR
Lympne	1011.5	+8	W'N	3	zo	34	85	6	-	-	4	0	4-6	-	1	§ 1	bxcmps	bc]bcczx	pbcmox	cxrrRf
Manston	1010.1	+12	W	3	zo	32	85	5	-	-	-	0	0	-	1	*	bcmo	b,cbmo	b,cmox	cxrrmo
Shoeburyness	1010.1	+8	W'N	2	b	34	85	5	-	-	-	0	0	-	1	*	bcmob	bccmbx	bmoxc	cxsosoir
Felixstowe	1009.3	+12	W	4	zo	34	85	6	-	-	-	0	0	-	0	3	bbmob	bbmob	bm.bm	bm,oSS
Gorleston	1007.8	+10	WNW	3	b	34	85	6	-	-	-	0	0	-	1	2	bcqzo	bcbzo	bczox	czozxois
Mildenhall	1009.2	+10	WSW	3	zo	31	92	5	-	-	-	0	0	-	1	*	bmox	bmo	bcmox	osososs
Cranwell	1008.9	+6	W'S	2	m	31	92	4	-	-	-	0	0	-	1	*	bmoxm	bmx	bmxc	ossm
Birmingham	1009.8	+4	WSW	2	bc	34	75	5	-	7	-	0	4-6	-	4	*	cpsbc	bc	bco	osso
Upper Heyford	1011.2	+6	-	0	bc	31	85	8	-	4	1	0	2-3	-	1	*	bcpsob	bccbcx	bcccmo	csscsrro
Ross-on-Wye	1010.7	0	WSW	2	c	35	75	8	5	-	-	9+	9+	2500	1	*	bcbbcc	cbcc	cbccd	srso
Hartland Point	1010.5	-12	SSE	2	c	37	75	8	5	-	-	7-8	7-8	1500	1	3	bcc	c	rorocrr	rrpbc
Bristol	1011.7	-2	SW	1	zo	32	85	6	5	3	1	2-3	7-8	5700	1	*	bxbc	bccbc	bccso	roRcR
Portland Bill	1012.1	+10	NW	4	c	40	92	8	5	-	-	7-8	10	2500	1	3	c	c	orr	orr
Plymouth	1011.2	-18	-	0	c	42	65	8	5	3	-	4-6	9	4000	1	2	cprobc	bcyc	cirorrcq	cirorm.bc
The Lizard	1011.3	-10	S	3	rr	45	92	8	5	-	-	10	10	1500	1	1	bcc	cprrr	rrcpr	prcbc
Scilly (St. Mary's)	1009.2	-26	SW	2	rr	46	97	6	5	-	-	10	10	1500	1	2	cpoc	cpoorr	cpocrr	cpoqbc
Guernsey	1012.8	0	W	1	c	44	65	9	8	3	-	4-6	9	2500	1	3	cphr	c	ororoir	oRr
Pembroke	1008.3	-14	ESE	4	bc	39	75	8	5	7	-	2-3	4-6	2500	1	2	cbcq	bc	orrqm	cPRqbc
Holyhead	1009.0	-4	WSW	2	c	37	75	8	2	1	8	2-3	10	4000	1	2	bcproc	c⊕	irosoSoc	ssmoo
Chester (Sealand)	1009.3	-4	-	0	zo	35	85	6	8	-	-	4-6	9+	2500	1	*	cprsphps	bc]bcprpc	cbccmo	ossf
Manchester	1009.3	+4	S'E	1	m	32	92	4	5	3	-	9	9+	2500	4	*	csombff	FFbcmfbc	cmff	cmffsoso
Spurn Head	1007.6	+14	WNW	4	b	35	85	5	-	-	-	0	0	-	0	2	bcm	cbmo	bmffc	cff
Catterick	1007.7	+2	W	2	c	29	85	7	-	3	-	0	7-8	-	3	*	bxbcb	bbc	bcx	bcx
Tynemouth	1007.4	+4	W	2	bc	32	85	5	2	-	-	2-3	2-3	1500	3	2	bc	bc	bc	bcc
St. Abbs Head	1006.7	0	WNW	4	bc	34	65	7	7	-	-	2-3	2-3	4000	4	3	c	bc	bbc	bmobc
Leuchars	1007.0	+2	WSW	3	b	31	75	8	5	-	-	Tr	Tr	4000	3	*	bccxbc	bcbx	bx	bx
Renfrew (Abbots I.)	1008.0	-6	-	0	zo	26	85	5	5	3	-	1	2-3	4000	3	*	cxbc	bcmmo	bcmoff	bcxFF
Eskdalemuir	1008.8	-4	-	0	b	18	97	7	5	-	-	Tr	Tr	5700	8	*	bbcbx	bbcbx	bcxcx	cxbx
Point of Ayre	1008.2	-4	SW'W	1	c	36	85	8	8	3	-	Tr	9+	2500	0	1	bc	bcc	c	c
Tiree	1007.5	-10	-	0	bc	32	97	9	8	-	-	4-6	4-6	2500	4	2	phbcv	bc	bc	bc
Stornoway	1008.0	-6	W	3	bc	29	92	8	5	7	-	4-6	4-6	4000	8	2	bc	bc	bcc	cb
Dalwhinnie	*	-4	NNE	1	b	7	97	8	-	-	8	0	1	-	8	*	cbc	b	*	b
Aberdeen	1006.0	-2	NW	3	bc	30	75	7	-	3	-	0	2-3	-	4	2	cpso	psobc	b	b
Wick	1005.1	-2	NNE	3	c	33	97	7	5	7	2	7-8	10	1500	6	1	rsrsc	rsors	cbcph	bc
Lerwick	1005.7	+2	N	3	c	35	92	8	5	7	-	4-6	7-8	1500	4	*	bccpsh	bcc	pshbc	bccbc
Blacksod Point	1003.2	-30	ESE	5	iso	36	97	7	-	7	-	0	10	-	1	4	c	iso	iSq	iSq
Malin Head	1007.5	-20	S'W	1	c	33	85	8	4	8	1	2-3	9	5700	4	3	cbc	cbcc	cbccvyc	c
Aldergrove	1008.3	-16	SSE	1	c	29	97	7	5	-	-	9+	9+	4000	7	*	bcpspso	c	cpsc	cpsbc
Birr Castle	1006.3	-24	ESE	2	ps	34	92	7	5	-	-	10	10	1500	4	*	bcc	cps	cbspr	cbrc
Valentia Obsy. †	1001.9	-38	S	4	bc/r	46	92	8	5	-	-	4-6	4-6	1500	1	3	cidoc	irorrbc	bcprcPR	PRcprbc
Roches Point	1004.0	-50	SSW	4	dr	46	97	6	5	-	-	10	10	450	1	3	c	rrddr	crrc	cbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s₀, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r₀, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
⊕, Solar halo. lunar halo. Aurora.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8)

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. „ wet.
2 .. „ flooded.
3 .. „ frozen hard and dry.
4 .. „ partly covered with snow or hail.
5 .. „ covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. „ covered with snow, less than 6 ins., deep but ground not frozen.
8 .. „ covered with snow, less than 6 ins., but ground frozen
9 .. „ covered with snow greater than 6 ins. deep.

NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2*

† Sea disturbance reported from Dungeness.

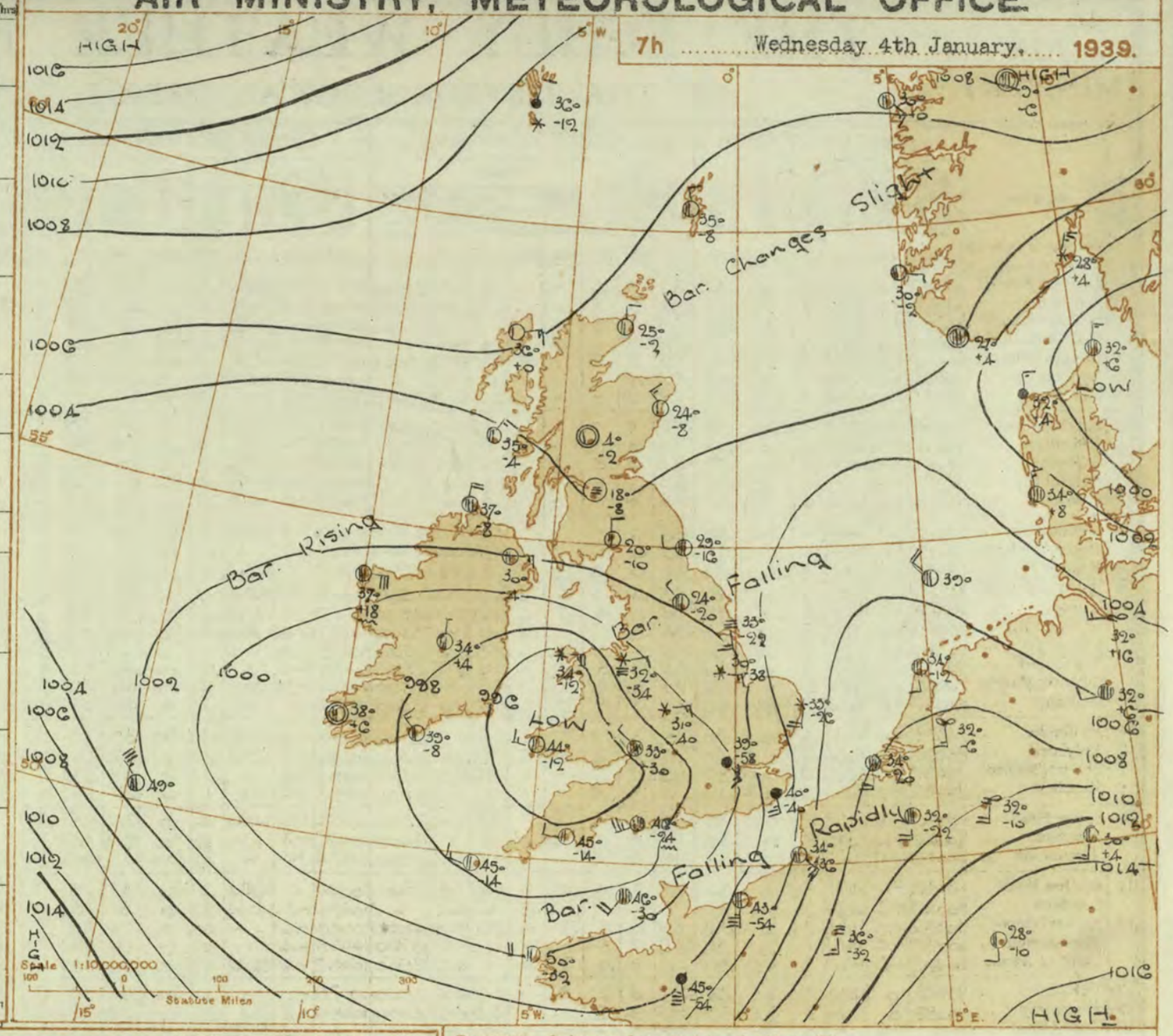
REPORTS from HEALTH RESORTS for 3rd January 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F.) Min. 9h. 2nd to 9h. 3rd.	Temperature. (°F.) Max. 9h.—17h. 3rd.	Rainfall. (mm.) Night. 17h. 2nd to 9h. 3rd.	Rainfall. (mm.) Day. 9h.—17h. 3rd.	Sunshine (hrs) Sunrise to Sunset. 2nd.
1	Tunbridge W.	bbcco	oco	32	37	Trace	-	3·2
	Bournemouth	b	bbcb	35	42	-	-	5·1
	Ventnor ...	xb	bbc	34	42	-	-	5·5
	Southsea ...	b	bbcc	35	40	Trace	-	4·7
	Bognor Regis	b	bbc	33	41	0·3	-	5·4
	Littlehampton	bc	bc	33	41	-	-	5·1
	Worthing ...	cbcb	b	32	40	0·3	-	4·7
	Brighton ...	bc	bcc	34	40	0·3	-	3·9
	Eastbourne† ...	bcb	bbcc	34	40	-	-	4·5
	Hastings† ...	bbc	bcco	32	40	Trace	-	4·3
	Folkestone ..	mspcbc	bbcc	32	41	0·5	Trace	2·9
	Dover ...	cdbc	bc	34	39	0·5	Trace	3·6
	Deal	ocb	bbc	33	37	0·5	-	3·9
	Ramsgate ...	cbc	bc	33	38	-	-	4·6
	Margate ...	bc	bc	35	38	Trace	-	4·4
2	Southend ...	cbcb	bz	31	39	Trace	-	4·1
	Clacton-on-Sea	bcb	bbc	32	38	0·1	-	5·3
	Dovercourt ...	xbc	b	32	37	Trace	-	6·0
	Lowestoft ...	b	b	31	37	2	-	6·0
	Skegness ...	cb	b	30	38	3	-	6·4
	Mablethorpe...	b	bm	31	36	2	-	5·6
	Cleethorpes ...	bcb	bc	31	36	1	-	5·0
3	Leamington S.	opsc	c	31	37	0·4	-	0·2
4	Cheltenham†	c	c	32	39	Trace	-	2·1
5	Bath	b	bbc	31	40	-	-	4·3
	Weymouth ...	bbc	c	34	42	-	-	2·5
	Jersey ...	pcbc	bcpc	40	45	0·5	0·2	1·3
	Torquay ...	bcc	bc	34	44	0·2	-	1·9
	Falmouth	c	c	39	45	1	-	1·3
	Penzance ...	bbcc	ccpc	40	46	-	Trace	0·7
	St. Ives ...							
	Bude... ...	bc	bc	38	44	1	-	2·1
	Ilfracombe ...	bcbc	cbcc	38	42	-	-	3·8
6	Aberystwyth	prsc	c	36	41	3	-	0·4
7	Llandudno ...	irsc	irshc	33	40	8	1	0·4
	Colwyn Bay...	crsbc	pcpbc	34	39	11	2	0·2
	Rhyl	cprs	cphr	33	39	5	1	0·3
8	Wallasey ...	bc	bcc	34	40	1	-	2·7
	Southport ...	bcmbc	bcc	33	40	1	-	3·2
	Blackpool ...	bmF	cbcm	33	39	2	Trace	2·6
	Morecambe ...							
9	Ilkley... ...	b	bc	27	37	-	-	6·1
	Harrogate ...	b	b	28	37	-	-	6·0
10	Berwick-on-T.	bcc	cbbc	31	37	1	-	2·6
11	Dunbar ...	bcmx	bc	30	37	Trace	-	5·3
12	Troon... ...	coc	bcc	34	39	-	-	2·5
	Douglas ...	bcisx	bcph	33	36	8	3	1·4

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.

AIR MINISTRY, METEOROLOGICAL OFFICE

7h ..... Wednesday 4th January, ... 1939.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 4th January, 1939.
1 S.E. England	Wind southwest, moderate; some showers but bright intervals; fog at night; average day temperature; frost at night.
2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Wind variable light; sleet or snow to-day, with extensive fog; brighter periods tomorrow; cold, frost at night.
5 S.W. England	As 1.
6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England	As 2 - 4.
11 S.E. Scotland 12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland 17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind light variable between east and north; fair apart from local fog; cold with severe frost at night.

GENERAL INFERENCE.

A depression centred over the Bristol Channel is moving slowly east-southeast and will probably turn east-northeast. Over most of England and Wales there will be further sleet or snow during the day but in Scotland and Ireland the weather will be mainly fair apart from local fog.

FURTHER OUTLOOK.

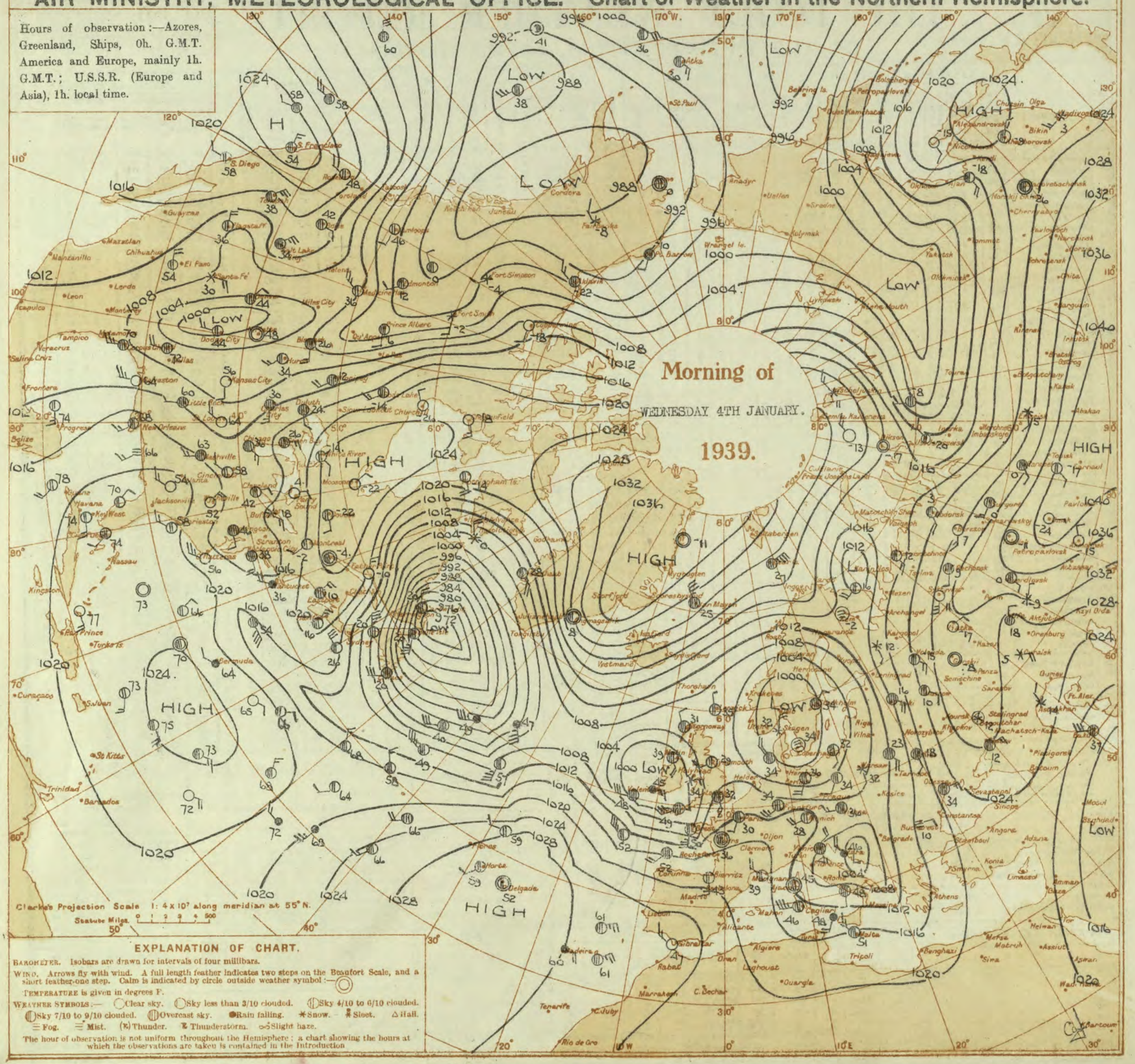
Remaining cold in the North; doubtful in the South.

Forecasts issued at 1030 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S.
Director.

H.M. Stationery Office Press, Kingsway W.C.2.

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 4th January, 1939.

No. 28167

OBSERVATIONS at 1 hr. G.M.T. 4th January

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1009.5	−16	SSE	3	Zo	32	85	5	5	—	—	10	10	4000
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1011.1	−12	SW'W	1	Zo	29	85	5	—	3	—	0	7-8	—
	Manston ...	154	1009.7	−14	SW'S	1	Zo	30	85	6	—	3	—	0	3	—
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1006.4	−2	W	2	c	30	92	5	5	3	—	7-8	10	1500
	Mildenhall ...	19	1008.1	−14	S'W	2	Zo	31	92	6	5	3	—	2-3	7-8	4000
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	999.2	−50	SW	5	rr	46	97	7	—	2	—	10	10	1500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1003.0	−58	S	5	rr	45	92	7	5	—	—	10	10	800
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1001.2	−40	S'W	4	pr	47	97	7	5	—	—	10	10	1500
	Scilly (St. Mary's)	163	1000.0	−44	WSW	6	c	43	97	7	5	7	—	7-8	9+	1500
	Guernsey ..	175	1005.8	−42	S'W	4	o	47	85	8	5	—	—	10	10	2500
6	Pembroke ...	142	999.4	−30	ESE	4	rr	42	97	6	5	—	—	10	10	1500
7	Holyhead ...	26	1002.2	−38	E	3	$S_o S_o$	34	92	7	6	1	—	2-3	10	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1006.6	−4	WSW	2	cf	31	97	3	5	—	—	10	10	2500
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1005.4	−10	W	2	bc	29	85	6	8	—	—	2-3	2-3	2500
11	St Abbs Head ..	280	1006.0	−4	WNW	3	bc	32	75	7	4	1	—	2-3	2-3	4000
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots L.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1004.1	−26	SE	3	c	37	75	7	8	—	7	2-3	10	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1006.4	−4	NNW	1	c	31	97	8	5	—	—	7-8	7-8	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1005.3	+2	NNE	2	bc/pr	28	97	7	9	7	—	4-6	4-6	1500
16	Lerwick ...	156	1005.5	+2	N	1	bc	35	85	8	5	—	—	4-6	4-6	1500
17	Blacksod Point	18	999.1	−8	ESE	6	RS	39	97	5	6	—	—	10	10	<150
18	Malin Head ...	84	1004.0	−16	SE	4	c w	39	65	8	4	—	6	2-3	7-8	5700
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	997.5	−6	E	3	pr	45	97	8	6	—	—	9+	9+	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 4th January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	997.5	−60	ESE	2	s	36	92	5	6	2	—	10	10	800	6	*
Croydon ...	998.8	−58	SE'S	3	rr	39	97	6	—	2	—	10	10	450	1	*
S. Farnborough	997.1	−52	S	3	$r_o r_o$	43	97	6	5	—	—	10	10	1500	1	*
Boscombe Down	995.9	−36	SSW	4	r_o	43	97	7	6	2	—	9	10	800	1	*
Calshot (Sthmtn.)	998.6	−40	SSW	4	rr	45	97	6	6	—	—	10	10	1500	1	3
Lympne ...	1003.1	−40	S'E	5	ir	40	97	5	6	2	—	9+	10	450	1	34
Manston ...	1001.6	−50	S'E	4	$r_o r_o$	36	97	6	6	2	—	9	10	450	1	*
Shoeburyness ...	1000.9	−54	SSE	5	ir	36	97	6	6	—	—	10	10	1500	1	*
Felixstowe ...	1002.8	−40	SSE	5	ss	38	97	4	—	2	—	10	10	450	8	4
Gorleston ...	1004.3	−26	S'W	4	is_o	33	97	6	6	—	—	10	10	1500	1	2
Mildenhall ...	1000.1	−56	E	4	ss	32	97	4	6	—	—	10	10	600	8	*
Cranwell ...	1001.6	−38	ESE	3	ss	30	97	4	6	—	—	10	10	450	8	*
Birmingham ...	998.1	−40	E	3	$s_o s_o$	31	97	5	6	—	—	10	10	800	7	*
Upper Heyford	997.2	−60	E/S	4	o/r	33	92	6	5	—	—	10	10	450	7	*
Ross-on-Wye	996.2	−30	NW	1	o	33	97	6	—	2	—	10	10	2500	4	*
Hartland Point	994.6	−14	WNW	4	bc	46	85	8	3	—	—	4-6	4-6	2500	1	3
Bristol ...	996.5	−36	—	0	c/r	39	97	6	5	7	—	7-8	9+	1500	1	*
Portland Bill ...	995.8	−24	WSW	5	o	46	92	7	5	—	—	10	10	1500	1	4
Plymouth ...	996.8	−14	W'N	2	bc	45	85	7	5	—	—	4-6	4-6	1500	1	2
The Lizard ...	997.3	−10	W'S	5	bc	45	92	8	8	4	—	4-6	4-6	2500	1	3
Scilly (St. Mary's)	997.4	−14	WNW	3	bc/pr	45	85	8	3	—	—	2-3	2-3	1500	1	3
Guernsey ..	998.4	−30	SW	4	o	46	92	8	5	—	—	10	10	2500	1	3
Pembroke ...	995.1	−12	WNW	3	bc/pr	44	97	7	8	—	—	4-6	4-6	1500	1	2
Holyhead ...	995.9	−12	E	5	ss	34	92	5	—	2	—	10	10	450	6	3
Chester (Sealand)	996.5	−34	ENE	2	sf	32	97	3	—	—	—	10	10	<150	7	*
Manchester ...	995.2	−24	ENE	3	sf	33	92	3	5	2	—	9	10	1500	4	*
Spurn Head ...	1001.4	−22	S'E	3	f-	33	97	2	—	—	—	10	10	<150	3	2
Catterick ...	1002.6	−26	NW	1	c	24	92	7	5	3	—	4-6	7-8	1500	3	*
Tynemouth ...	1003.6	−16	W	2	c	29	85	6	8	—	—	9	9	2500	3	1
St Abbs Head ..	1004.0	−12	N	2	bc	33	85	7	2	4	—	2-3	4-6	2500	3	2
Leuchars ...	1004.6	−8	W	1	b	20	85	7	—	4	—	0	1	—	3	*
Renfrew (Abbots L.)	1005.2	−8	—	0	bcf	18	85	2	5	—	—	4-6	4-6	2500	5	*
Eskdalemuir ...	1003.9	−10	NNW	2	bc	20	85	8	5	3	—	1	2-3	2500	8	*
Point of Ayre...	1000.7	−10	E'N	4	c	36	85	7	5	—	—	9+	9+	1500	0	3
Tiree	1003.6	−4	NE	3	bc	35	80	9	5	4	—	2-3	2-3	4000	3	1
Stornoway ...	1006.4	0	ENE	3	b	36	75	8	5	—	—	1	1	2500	8	1
Dalwhinnie ...	*	−2	—	0	b	4	97	8	—	6	—	0	Tr	—	8	*
Aberdeen ...	1004.4	−8	NW	3	b	24	92	6	8	—	—	1	1	2500	4	2
Wick ...	1004.8	−2	NNE	2	bc	25	97	8	8	7	—	2-3	4-6	1500	8	1
Lerwick ...	1004.3	−8	NNW	2	bc	35	75	8	5	—	—	4-6	4-6	1500	4	*
Blacksod Point	1001.6	+18	ESE	6	c	37	97	7	—	7	—	0	10	—	6	5
Malin Head ...	1003.0	−8	NNE	4	c	37	75	7	4	—	8	4-6	7-8	5700	3	3
Aldergrove ...	1001.8	−4	E	3	bc	30	97	8	2	—	—	4-6	4-6	1500	8	*
Birr Castle ...	998.3	+4	N	1	c	34	97	7	5	—	—	10	10	2500	1	*
Valentia Obsy. †	998.4	+6	—	0	bc	38	85	8	8	—	—	2-3	2-3	2500	1	2
Roches Point	997.2	−8	NW	3	bc	39	92	8	5	—	—	2-3	2-3	2500	1	3

PAST 24 HOURS.

Stations	Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 3rd. Hrs. (36)
London (Kew)	39	31	24	-	6	2.2
Croydon ...	39	31	27	-	3	2.3
S. Farnborough	40	29	24	-	8	2.4
Boscombe Down	39	29	23	-	7	4.7
Calshot (Sthmtn.)	40	30	26	-	8	4.9
Lympne ...	37	29	21	Tr	5	3.1
Manston ...	37	27	21	-	2	4.5
Shoeburyness ...	39	32	21	-	2	3.8
Felixstowe ...	37	31	27	-	3	5.8
Gorleston ...	37	30	28	-	0.1	6.0
Mildenhall ...	36	27	24	-	5	5.6
Cranwell ...	38	27	22	-	3	4.9
Birmingham ...	36	29	28	0.4	6	1.7
Upper Heyford	38	28	19	0.2	3	*
Ross-on-Wye	39	31	26	-	2	3.7
Hartland Point	42	36	34	-	4	1.4
Bristol ...	38	31	21	-	5	4.1
Portland Bill ...	44	39	*	-	12	*
Plymouth ...	44	40	36	0.3	7	2.3
The Lizard ...	46	40	*	1	7	1.5
Scilly (St. Mary's)	46	44	*	2	8	0.2
Guernsey ..	45	41	41	2	8	0.6
Pembroke ...	41	38	*	-	17	1.5
Holyhead ...	41	33	31	Tr	8	0.1
Chester (Sealand)	38	32	28	3	5	2.1
Manchester ...	36	30	21	1	2	2.8
Spurn Head ...	37	31	*	-	—	5.5
Catterick ...	37	26	16	-	—	6.1
Tynemouth ...	35	27	24	-	—	4.0
St Abbs Head ..	38	32	*	Tr	—	*
Leuchars ...	39	20	12	-	—	5.9
Renfrew (Abbots L.)	39	18	15	-	—	2.6
Eskdalemuir ...	32	13	7	-	—	2.3
Point of Ayre...	40	29	*	-	—	3.6
Tiree	39	30	21	0.4	—	1.4
Stornoway ...	33	29	*	-	—	5.3
Dalwhinnie ...	30	9	−1	-	—	4.2
Aberdeen ...	35	22	17	1	—	0.2
Wick ...	35	24	*	2	0.2	*
Lerwick ...	39	32	*	0.1	0.1	2.5
Blacksod Point	50	32	*	Tr	8	*
Malin Head ...	42	31	*	1	—	1.1
Aldergrove ...	36	25	19	0.1	1	1.5
Birr Castle ...	36	33	32	0.2	2	0.1
Valentia Obsy. †	46	37	31	5	8	0.1
Roches Point	47	36	*	3	5	*

LONDON OBSERVATIONS

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except for rainfall which is 9h—18h.

	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon (24 hrs. ended 9h.)	Weather Night (24 hrs. ended 9h.)	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T % (Yesterday)	Humidity 9h. G.M.T % (To-day)	Visibility 9h.
Kew...	18	bbccm	cbcbz	cmss	39	31	24	—	6	2.2	*	*	5
Croydon	217	cb,cm	czbz	cmxs	39	31	27	—	3	2.3	*	*	6
Greenwich (Royal Observatory)...	149	bcm	cm	csrr	38	30	25	—	4	0.0	72	97	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.6	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	38	33	25	6		*	75	93	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*	42	32	25	—	7	0.8	72	99	*
Camden Square	110			*	40	33	26	—	8	*	*	94	*
Kensington	80	bcc	cbc	*	39	32	25	—	7	1.7	At 18h. 72	98	*
Hampstead Observatory	450	bbs	bc	oxsfr	35	31	24	0.2	7	1.8	*	99	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 4th

South Kensington.	Time.	Min.	Time.
Max. 0.6	18-24 3rd	<0.3	5-6h 4th

Kew Observatory.	Time.	Min.	Time.
Max. 0.7	22h 3rd	<0.1	2h 4th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 3rd January Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 4th January Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris	1013.1	N	4	bc	36	1008.7	S	3	m/f	36	41	30	0.6	—
Brussels	1003.2	WSW	4	c	34	1008.5	S	4	c	32	39	28	0.2	—
Berlin	1002.7	SSW	4	c/s	36	1005.6	WSW	4	z_o	34	39	34	0.1	1
Zurich	1015.0	WSW	1	c/s	32	1017.5	WSW	4	s	32	39	30	1	0.6
Rome	1009.0	E'N	5	c	54	1010.9	NE	2	z_o	37	*	*	*	—

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	<1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	> 75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1¼ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6½ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30.—Code for State of Sea.

0 Calm.	5 Very rough.
1 Smooth.	6 High.
2 Slight.	7 Very high
3 Moderate.	8 Precipitous.
4 Rough.	9 Confused.

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY, LONDON, W.C.2.

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. ‖ Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday, 5th January, 1939.

No. 28168

OBSERVATIONS at 13h. G.M.T. 4th January

District	Stations (Fox heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	°Temp. F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud. Form. Low (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	994.4	-10	WSW	2	m	45	92	4	3	-	-	7-8	10	800
	Croydon ...	995.0	-14	SW	3	pr	45	92	6	3	3	8	7-8	9+	2500
	S. Farnborough	994.5	-10	WSW	2	c	45	85	6	5	7	-	9	9+	1500
	Boscombe Down	995.4	-2	W'N	4	c	45	85	7	9	7	-	9	9+	800
	Calshot (Sthmtn.)	996.2	-6	W'S	3	bc	47	85	8	8	4	-	4-6	4-6	2500
	Lympne ...	996.3	-3.0	SSW	3	ir	43	92	6	-	2	-	10	10	<150
	Manston ...	995.6	-2.6	SSW	5	d$_o$d$_o$	43	92	6	6	2	-	9+	10	800
2	Shoeburyness ...	995.0	-1.8	SSW	3	r$_o$r$_o$	43	97	5	6	2	-	9+	10	800
	Felixstowe ...	994.8	-3.4	S'E	4	o/r	41	97	6	5	-	-	10	10	800
	Gorleston ...	994.9	-5.0	SSW	4	rr	40	92	5	6	-	-	10	10	1500
	Mildenhall ...	993.8	-2.4	ENE	1	r$_o$r	33	97	3	6	-	-	10	10	800
	Cranwell ...	996.0	-2.6	ENE	4	s$_o$s$_o$	33	97	6	5	-	-	10	10	800
3	Birmingham ...	996.3	-4	NE	3	is$_o$	32	97	3	6	-	-	10	10	800
	Upper Heyford	995.5	-2	-	0	F+	34	97	1	-	-	-	10	10	<150
4	Ross-on-Wye	995.8	0	NW	1	df	34	97	1	5	-	-	10	10	<150
5	Hartland Point	997.0	+1.2	NW	4	c/pr	42	85	8	8	-	-	9	9	800
	Bristol ...	996.6	0	W	2	c/f	41	97	6	5	-	-	7-8	7-8	1500
	Portland Bill ...	995.9	+2	W	5	bc	47	85	8	5	-	-	4-6	4-6	2500
	Plymouth ...	997.9	+6	NW	3	c	47	75	8	8	-	-	7-8	7-8	1500
	The Lizard ...	998.8	+1.4	WNW	3	bc	47	92	8	8	-	-	4-6	4-6	2500
	Scilly (St. Mary's)	999.7	+1.0	NW'N	4	c/pr	47	85	8	8	6	-	4-6	7-8	1500
	Guernsey ...	997.7	-4	W	3	c/pr	46	85	7	8	3	-	7-8	9	2500
6	Pembroke ...	997.2	+6	NW'W	4	cq	41	85	7	8	-	-	9+	9+	1500
7	Holyhead ...	998.9	+1.4	NE	5	rs	36	92	6	6	2	-	7-8	10	450
	Chester (Sealand)	998.2	0	N'E	4	sf	32	97	3	-	-	-	10	10	<150
8	Manchester ...	998.0	-2	NE'N	4	sf	32	97	3	6	-	-	10	10	450
10	Spurn Head ...	997.3	-2.4	E	5	r$_o$r$_o$	36	97	7	9	2	-	7-8	10	1500
	Catterick ...	1000.4	-1.2	NW'N	1	s$_o$s$_o$	31	92	4	5	-	-	10	10	1500
	Tynemouth ...	1001.6	-8	E	4	c	40	65	8	2	3	-	4-6	7-8	1500
11	St. Abbs Head ...	1002.3	-4	NNE	3	c/phr	36	92	8	8	2	-	4-6	7-8	2500
	Leuchars ...	1004.4	-2	W	1	z$_o$	27	85	6	8	7	9	1	4-6	2500
12	Renfrew (Abbots I.)	1004.8	-2	-	0	c/f	33	75	5	-	-	6	0	7-8	-
	Eskdalemuir ...	1002.7	-6	NNE	5	bc	28	92	7	5	3	-	1	4-6	2500
	Point of Ayre ...	1001.6	+4	E'N	4	c	38	75	7	2	3	-	tr	7-8	2500
13A	Tiree ...	1005.6	+6	NE	2	bc	36	65	9	5	3	-	1	2-3	4000
13B	Stornoway ...	1007.0	+2	WNW	2	bc	32	75	9	5	5	-	2-3	2-3	2500
15	Dalwhinnie ...	*	0	-	0	b	18	97	8	-	6	1	0	tr	-
	Aberdeen ...	1004.7	-2	NW	3	b	30	92	7	8	-	-	1	1	2500
	Wick ...	1005.0	0	W	3	bc	28	92	8	8	6	-	2-3	2-3	1500
16	Lerwick ...	1004.7	-4	N	1	bc	38	85	8	8	7	1	2-3	4-6	1500
17	Blacksod Point	1004.4	+1.6	NE	2	bc	38	97	9	9	-	-	4-6	4-6	2500
18	Malin Head ...	1005.0	+1.2	NE	3	c	37	65	8	7	-	4	2-3	7-8	2700
	Aldergrove ...	1003.5	+6	NNE	2	z$_o$	32	92	6	-	3	-	0	9+	-
19	Birr Castle ...	1004.1	+2.2	NNW	2	c	35	92	8	3	3	-	2-3	9	1500
20	Valentia Obsy. †	1004.8	+3.0	ENE	3	c	40	85	8	5	-	-	9+	9+	800
	Roches Point	1002.6	+2.0	N'E	4	c	38	85	8	5	-	-	9+	9+	1500

OBSERVATIONS at 18h. G.M.T. 4th January

District	Stations (Fox heights see p. 4.)	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	°Temp. F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Cloud. Form. Med. (24)	Cloud. Form. High. (25)	Cloud. Amount. Low 0–10 (26)	Cloud. Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	995.7	+6	WSW	2	ir$_o$	38	92	6	6	2	-	10	10	1500	1	*
	Croydon ...	995.7	+8	W'N	3	id$_o$	39	97	4	-	2	-	10	10	450	1	*
	S. Farnborough	996.1	+12	NW	2	id$_o$	40	92	4	5	-	-	10	10	1500	1	*
	Boscombe Down	997.5	+22	NW	3	d$_o$d$_o$	39	97	4	5	-	-	10	10	450	1	*
	Calshot (Sthmtn.)	997.4	+10	W'S	3	bc	39	85	8	5	4	-	2-3	2-3	2500	1	2
	Lympne ...	996.6	+6	W'N	3	ir	40	97	6	5	-	-	9+	9+	2500	1	3
	Manston ...	995.3	+8	SW'N	2	c/r	41	97	5	6	2	-	9	10	450	1	*
2	Shoeburyness ...	995.3	+6	W'N	2	m	40	92	4	-	-	-	0	0	-	1	*
	Felixstowe ...	994.4	+2	W	4	o/f	37	97	5	5	-	-	10	10	800	1	4
	Gorleston ...	993.4	-4	W	2	f	36	92	2	-	-	-	10	10	<150	1	2
	Mildenhall ...	994.1	+6	WSW	3	f-	33	97	2	-	-	-	10	10	<150	6	*
	Cranwell ...	996.7	+10	N'W	3	sh	34	97	5	5	-	-	10	10	450	8	*
3	Birmingham ...	997.8	+10	N	3	sh	32	97	3	6	-	-	10	10	800	7	*
	Upper Heyford	996.8	+10	NW	3	sf	32	97	3	5	-	-	10	10	220	4	*
4	Ross-on-Wye	998.5	+2.0	NW	2	r$_o$	33	92	4	5	-	-	10	10	450	1	*
5	Hartland Point	1000.7	+3.0	N	5	c	39	85	8	8	-	-	9+	9+	1500	1	4
	Bristol ...	998.0	+2.2	N	3	z$_o$	35	85	5	5	-	-	10	10	450	1	*
	Portland Bill ...	997.4	+1.0	WNW	5	c	44	92	8	5	-	-	9	9	1500	1	4
	Plymouth ...	1000.3	+2.0	NW	4	z$_o$	42	75	6	5	-	-	9+	9+	1500	1	2
	The Lizard ...	1001.9	+1.4	NW'W	5	c	43	85	8	8	-	-	7-8	7-8	2500	1	3
	Scilly (St. Mary's)	1003.4	+2.8	NW'N	5	c	42	85	8	8	6	-	7-8	9+	1500	1	3
	Guernsey ...	999.1	+1.0	NW'W	4	bc	45	85	8	*	1	-	4-6	4-6	2500	1	4
6	Pembroke ...	1001.9	+3.0	N'E	5	cq	39	92	7	8	-	-	7-8	7-8	1500	1	2
7	Holyhead ...	1002.0	+1.4	NNE	5	c	39	85	8	9	2	-	7-8	10	2500	1	3
	Chester (Sealand)	1001.4	+2.2	NW'N	1	s$_o$s$_o$	33	85	4	-	-	-	10	10	<150	9	*
8	Manchester ...	1000.6	+1.8	NNW	3	z$_o$	34	75	5	-	2	-	10	10	1500	7	*
10	Spurn Head ...	997.0	-2	NE	5	r$_o$r$_o$	38	85	7	9	-	-	10	10	1500	1	4
	Catterick ...	1001.2	+1.0	N'W	3	m	33	92	4	6	2	-	7-8	9+	800	8	*
	Tynemouth ...	1002.0	+1.8	ENE	4	c/s	39	75	8	8	-	-	9	9	1500	4	3
11	St. Abbs Head ...	1003.0	+6	N	5	c/phr	37	75	8	8	2	-	4-6	7-8	2500	1	3
	Leuchars ...	1005.3	+8	NW	3	z$_o$	29	75	6	8	7	-	1	2-3	2500	3	*
12	Renfrew (Abbots I.)	1006.0	+1.0	SW	1	z$_o$	26	85	5	-	-	6	0	4-6	-	5	*
	Eskdalemuir ...	1004.0	+1.2	NNE	4	c	29	85	6	5	-	-	7-8	7-8	1500	8	*
	Point of Ayre ...	1003.8	+1.6	NE	5	c	37	75	7	5	3	-	4-6	9	4000	0	3
13A	Tiree ...	1006.7	+6	N	2	b	36	75	9	1	-	-	1	1	4000	3	1
13B	Stornoway ...	1007.4	+2	WNW	3	c	35	85	8	5	7	-	7-8	9+	2500	8	1
15	Dalwhinnie ...	*	+6	-	0	c	21	92	5	5	-	-	10	10	1500	8	*
	Aberdeen ...	1005.4	+6	NW	3	b	30	85	6	8	-	-	1	1	2500	4	2
	Wick ...	1005.1	+2	WNW	3	bc	29	92	8	5	4	-	2-3	4-6	2500	8	1
16	Lerwick ...	1004.9	+4	NNW	2	bc	34	85	8	5	-	-	4-6	4-6	1500	3	*
17	Blacksod Point	1008.3	+4	W	1	bc	45	97	8	-	4	-	0	tr	-	1	3
18	Malin Head ...	1006.8	+1.6	NE'E	1	bc	35	75	8	7	4	-	2-3	2-3	3700	3	3
	Aldergrove ...	1006.4	+2.2	N	2	c	29	92	7	5	-	6	2-3	7-8	2500	8	*
19	Birr Castle ...	1006.4	+1.6	N	1	b	30	92	8	-	4	-	0	1	-	1	*
20	Valentia Obsy. †	1009.6	+2.6	NNE	2	b	36	85	8	1	-	-	1	1	2500	1	3
	Roches Point	1007.3	+2.8	N	4	b	37	85	8	5	-	-	1	1	4000	1	2

PAST 24 HOURS.

Stations (Fox heights see p. 4.)	Weather. 7h.–13h. 4th. (37)	Weather. 13h.–18h. 4th. (38)	Weather. 18h. 4th to 1h. 5th (39)	Weather. 1h.–7h. 5th (40)
London (Kew)	cm$_o$r$_o$rcm$_o$	cm$_o$id$_o$r$_o$	cr$_o$s$_o$r$_o$	cbcbm$_o$x
Croydon ...	orrm$_o$	cpr$_o$fmr	cmd$_o$d$_o$f	oid$_o$cbm$_o$
S. Farnborough	r$_o$irike	cir$_o$iro	id$_o$r$_o$rsc	cbm$_o$x
Boscombe Down	ir$_o$m$_o$bcc	cpr$_o$cd$_o$d$_o$	d$_o$d$_o$s$_o$s$_o$r	rsvpr$_o$b
Calshot (Sthmtn.)	cPRir$_o$bc	bccpr$_o$bc	cmidr$_o$	cir$_o$bcbm
Lympne ...	orr$_o$r$_o$m$_o$	cirm$_o$	irbcf	oid$_o$bc
Manston ...	crrd$_o$d$_o$m$_o$	cd$_o$d$_o$irm$_o$q	cir$_o$m$_o$	cbc
Shoeburyness ...	r$_o$r$_o$rc	r$_o$rcmb	bmx	xbmm$_o$
Felixstowe ...	assorrm$_o$	orrofom$_o$	om$_o$	pmcpsbc
Gorleston ...	osfrsrr	orr$_o$r$_o$ff	ofz$_o$ir$_o$	oir$_o$phru
Mildenhall ...	sss$_o$r$_o$d$_o$	or$_o$r$_o$fc	od$_o$cr$_o$r$_o$	or$_o$r$_o$rbcb
Cranwell ...	SSfssm	oss$_o$r$_o$s$_o$	oshr$_o$s$_o$b	bbcps$_o$
Birmingham ...	oisof	foiso	fs$_o$s$_o$b	b
Upper Heyford	crr$_o$of	offs$_o$h	ofis$_o$m	cmbm$_o$
Ross-on-Wye	omoff	fdofmdm	r$_o$s$_o$isc	bcb
Hartland Point	cbccp	cp	cbc	bcbcW
Bristol ...	cbcpfac	cm$_o$ofd$_o$	cmd$_o$r$_o$s	bcbm$_o$x
Portland Bill ...	ocb	bcc	c	cbc
Plymouth ...	cpr$_o$bc	cbcc	bcbcm$_o$	cm$_o$bm$_o$b
The Lizard ...	bcpr	bccpr	cpr$_o$bc	bc
Scilly (St. Mary's)	bccp$_o$	cpc	cbcy	bcc
Guernsey ...	ocpr$_o$	bcpr$_o$	cpr$_o$bc	c
Pembroke ...	ber$_o$c	cir$_o$q	cprs	bc
Holyhead ...	s$_o$s$_o$r$_o$s$_o$c	s$_o$r$_o$m$_o$c	cb	b
Chester (Sealand)	ossmf	ossfss$_o$m	or$_o$s$_o$bcm$_o$	bcmbf
Manchester ...	ssSSff	SSffos$_o$fm$_o$	cm$_o$bm$_o$	bm$_o$
Spurn Head ...	mrssr	oirq	qprhc	prqbc
Catterick ...	xcms$_o$s$_o$	ssm$_o$cm	psfbc	b
Tynemouth ...	c	cps	cbcps	bc
St. Abbs Head ...	phrc	phc	cbcbz	bz
Leuchars ...	bbcxm$_o$	bcbxm$_o$	bx	bx
Renfrew (Abbots I.)	bcxff	cm$_o$bcx	bcxmm	bcxm
Eskdalemuir ...	bbccbc	bcbx	cbcbx	bx
Point of Ayre ...	c	c	bcb	b
Tiree ...	bc	bcb	b	bbc
Stornoway ...	bbc	bccpr$_o$	cbcps	cbcpr
Dalwhinnie ...	b	bcc	*	cfbc
Aberdeen ...	bbcb	bcbz$_o$	b	bbcb
Wick ...	bc	bccbc	ps$_o$bc	bc
Lerwick ...	bccbc	bc	bc	cisps
Blacksod Point	prs$_o$	bcb	b	bc
Malin Head ...	cbcyc	cvbc	bc	cbc
Aldergrove ...	bcc$_y$m$_o$	cm$_o$cbcc	cbcbx	bx
Birr Castle ...	c	cbcb	b	bbccx
Valentia Obsy. †	prcbcc	cbcb	bbxbc	bccir$_o$
Roches Point	bcc	cbcb	bx	bcx

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s$_o$, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s$_o$/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r$_o$, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
⊕, Solar halo. ◐ lunar halo. Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. „ wet.
2 .. „ flooded.
3 .. „ frozen hard and dry.
4 .. „ partly covered with snow or hail.
5 .. „ covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. „ covered with snow, less than 6 ins., deep but ground not frozen.
8 .. „ covered with snow, less than 6 ins., but ground frozen
9 .. „ covered with snow greater than 6 ins. deep.

NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2*

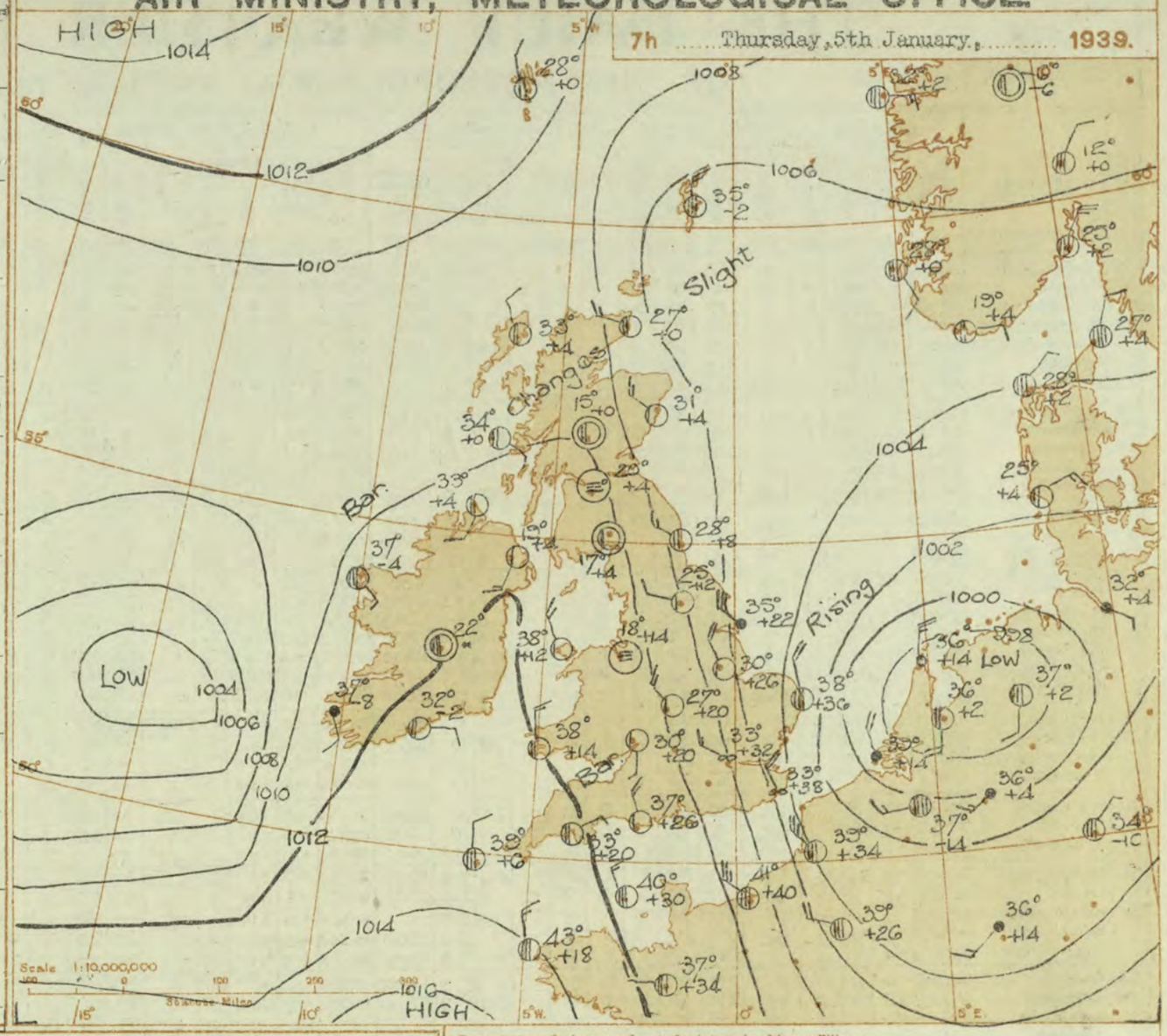
† Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 4th January 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F.) Min. 9h. 3rd to 9h. 4th	Temperature. (°F.) Max. 9h.—17h. 4th	Rainfall. (mm.) Night. 17h. 3rd to 9h. 4th	Rainfall. (mm.) Day. 9h.—17h. 4th	Sunshine (hrs) Sunrise to Sunset. 4th
1	Tunbridge W.	ore	ocore	26	45	8	3	0·6
	Bournemouth	bcbbc	bcbbc	32	47	15	-	3·5
	Ventnor ...	rhopc	bc	35	47	8	1	3·7
	Southsea ...	crbc	bbcc	32	48	6	0·6	3·3
	Bognor Regis	ooc	bcprc	32	48	6	2	2·3
	Littlehampton	crc	bcpbc	33	48	8	2	2·3
	Worthing ...	cr	cbcb	30	48	8	1	2·0
	Brighton ...	rrc	cbc	32	46	11	1	1·9
	Eastbourne† ...	r.rr	rrrbc	32	46	9	5	0·2
	Hastings† ...	orr.r	rcbcc	31	45	11	3	0·5
	Folkestone ...	m.oro	oroc	30	45	11	2	0·0
	Dover ...	oro	orcbc	31	45	8	4	0·0
	Deal	r	rocb	30	45	10	5	0·1
	Ramsgate ...	r	oc	32	45	4	2	0·0
	Margate ...	cr	c	31	46	5	1	0·0
2	Southend ...	or	orc	31	43	3	2	0·0
	Clacton-on-Sea	orsro	rcbem	29	42	9	3	0·0
	Dovercourt ...	socr	roc	30	43	10	4	0·0
	Lowestoft ...	orsor	oirf	28	41	6	8	0·0
	Skegness ...	osoro	orrbr	29	38	4	4	0·0
	Mablethorpe...	osxo	or.	29	38	3	2	0·0
	Cleethorpes ...	osrs	rsir	29	38	1	3	0·0
3	Leamington S.	odo	ogrs.	30	34	4	Trace	0·0
4	Cheltenham†	mof	irsf.	30	36	1	0·5	0·0
5	Bath	mc	cr.	33	42	5	Trace	0·0
	Weymouth ...	bc	p.bc	31	49	16	Trace	3·0
	Jersey ...	rcbc	cpc	40	49	3	1	3·7
	Torquay ...	bcp.	bbcq	36	47	12	0·5	3·3
	Falmouth	rcvcr	corg6	40	48	10	3	3·3
	Penzance ...	bcpbc	bcipc	39	49	16	1	3·1
	St. Ives ...							
	Bude... ...	bc	c	37	46	4	-	2·2
	Ilfracombe ...	rrcbc	cpco	36	46	8	Trace	0·2
6	Aberystwyth	mp	oprs	34	39	12	3	0·0
7	Llandudno ...	rs.	rsrs.	32	35	2	5	0·0
	Colwyn Bay...	sosos	sosos	32	35	2	1	0·0
	Rhyl	os.s.	os.s.	32	35	3	5	0·0
8	Wallasey ...	ss	ss	32	33	3	3	0·0
	Southport ...	ssm.	sss	31	32	4	6	0·0
	Blackpool ...	s.sfm	rs.m	29	38	2	3	0·0
	Morecambe ...							
9	Ilkley... ...	so	so	24	35	1	2	0·0
	Harrogate ...	oss.	ors.	23	34	0·4	1	0·0
10	Berwick-on-T.	bc	phsbc	21	39	-	0·4	0·8
11	Dunbar ...	bcm.	bcirs	22	38	-	Trace	1·0
12	Troon... ...	xccoc	ocmoc	23	32	-	-	1·1
	Douglas ...	cx	c	32	36	-	-	0·2

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.-9h.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 5th January, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ...	Wind freshening from southeast and then veering to west or northwest. Fine at first, then a period of sleet changing to rain, then fine again. Cold at first; temperature rising to-night.
7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Wind easterly becoming northerly. Fine to-day apart from local fog, snow spreading from the west during the night. Cold.
13 A. W. Scotld. / B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland 17 N. W. Ireland 18 N. E Ireland	Wind light variable. Mainly fine. Cold with sharp frost.
19 S. E. Ireland 20 S. W. Ireland	Wind southeast veering to northwest later, fresh; some rain ~~snow, sleet turning~~ to rain. Temperature rising temporarily.

GENERAL INFERENCE.

A depression off the Southwest of Ireland is moving east or east-north-east. A belt of sleet or snow will spread from the West during the day, but will change to rain in South Wales and the Southern half of England with a rising temperature.

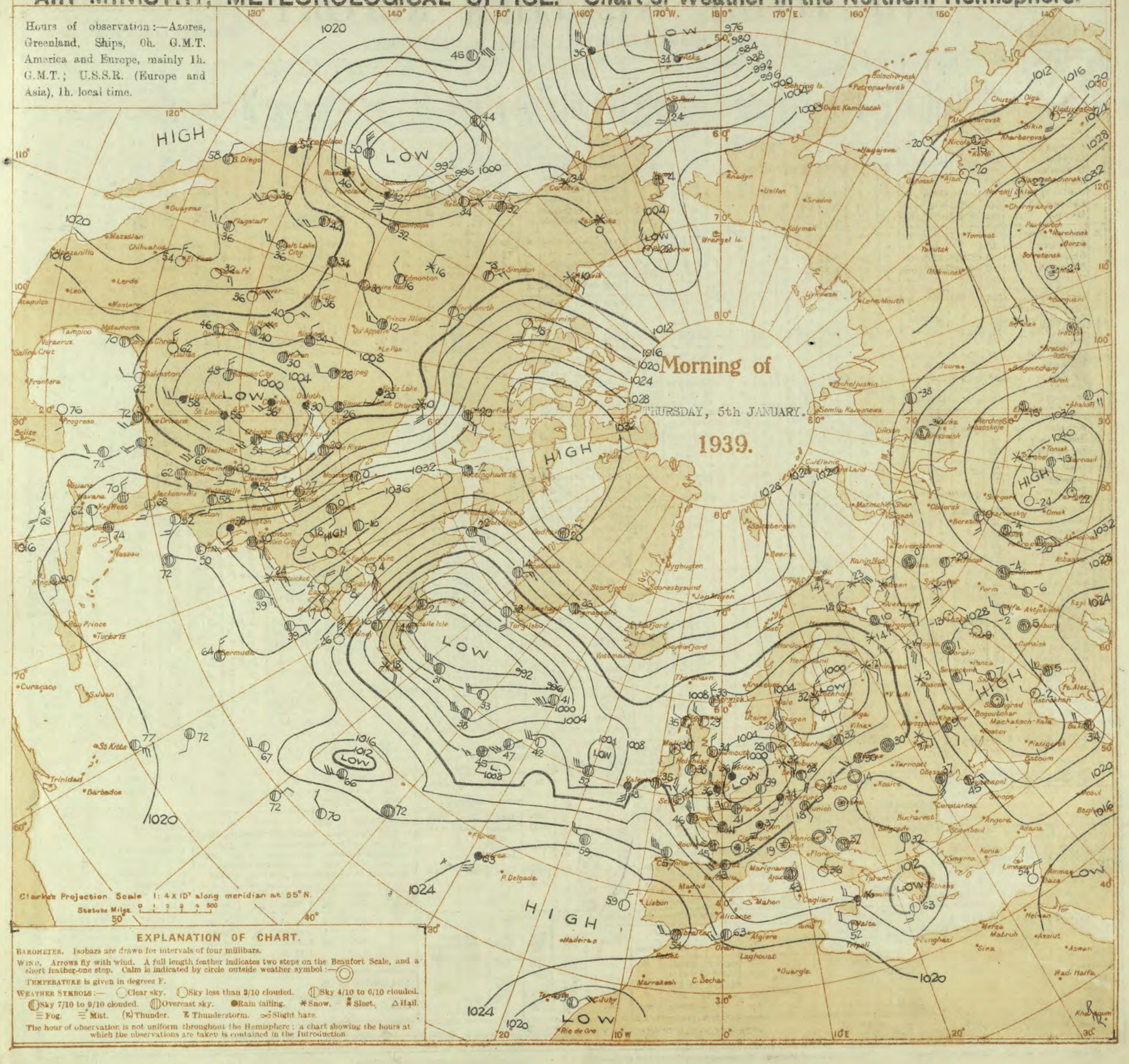
FURTHER OUTLOOK.

A fair period then rain spreading from the west.

Forecasts issued at 10.30 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S.
Director.

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS :— Clear sky. Sky less than 3/10 clouded. Sky 4/10 to 6/10 clouded. Sky 7/10 to 9/10 clouded. Overcast sky. Rain falling. Snow. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday, 5th January, 1939.
No. 28168

OBSERVATIONS at 1 hr. G.M.T. 5th January

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1001·1	+30	NNW	4	ido	36	92	6	5	-	-	10	10	800
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	999·3	+18	NNW	4	o/f	34	97	5	5	-	-	10	10	450
	Manston	154	998·5	+14	NW	4	zo	36	92	6	5	-	-	10	10	1500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	997·4	+22	N'E	6	iro	36	92	6	6	-	-	10	10	1500
	Mildenhall	19	1000·5	+38	NNW	4	iro	34	97	7	5	-	-	9	9	800
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1007·9	+36	N	6	bc	39	75	8	8	-	-	4-6	4-6	2500
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32	1004·3	+36	NNW	4	c	37	92	7	2	-	-	7-8	7-8	2500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard	240	1009·6	+36	N'W	4	bc	38	85	8	8	-	-	4-6	4-6	2500
	Scilly (St. Mary's)	163	1010·4	+30	NNW	5	bc	40	55	8	2	4	-	2-3	2-3	2500
	Guernsey	175	1005·1	+34	NW	5	c	40	85	6	8	-	-	9+	9+	2500
6	Pembroke	142	1008·6	+24	N'W	3	c/ps	36	97	7	8	2	-	4-6	7-8	1500
7	Holyhead	26	1008·4	+30	N	4	bc	38	75	8	2	-	-	2-3	2-3	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1001·4	+24	N'E	6	cq	38	85	7	9	-	3	4-6	7-8	2500
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	108	1005·0	+20	N	4	bc/ps	34	92	7	8	-	-	4-6	4-6	1500
11	St Abbs Head	280	1006·5	+10	WNW	4	b	33	75	7	-	3	-	0	1	-
	Leuchars	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1008·4	+18	N'E	3	b	37	65	7	-	-	-	0	0	-
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1008·2	+8	WNW	1	bc	35	92	8	3	-	-	4-6	4-6	4000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1006·1	+8	WNW	3	bc	29	97	8	8	6	-	2-3	4-6	1500
16	Lerwick	156	1005·2	+2	NNW	4	bc	33	85	8	8	-	-	4-6	4-6	1500
17	Blacksod Point	18	1011·3	+10	W	2	b	34	97	8	-	-	-	0	0	-
18	Malin Head	84	1009·5	+16	S	2	bc	30	85	8	1	-	4	Tr	4-6	5700
	Aldergrove	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	13	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1012·1	0	E	1	c	35	92	8	-	3	-	0	9+	-
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 5th January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)
London (Kew)	1008·4	+24	NNW	3	zo	33	75	6	-	-	-	0	0	-
Croydon	1008·0	+32	WNW	3	zo	33	85	6	-	-	-	0	0	-
S. Farnborough	1009·1	+28	NW	2	zo	31	85	5	-	-	-	0	0	-
Boscombe Down	1010·6	+22	NNW	3	b	30	85	7	-	-	-	0	0	-
Calshot (Sthmtn.)	1010·1	+36	NW	3	zo	32	92	6	-	-	-	0	0	-
Lympne	1006·1	+38	NW'N	4	zo	33	85	6	5	3	-	2-3	4-6	800
Manston	1005·2	+34	NNW	4	bc	34	92	8	5	3	-	Tr	2-3	1500
Shoeburyness	1006·2	+26	NW	4	b	33	92	6	-	-	-	0	0	-
Felixstowe	1004·9	+36	N	5	bc/ps	34	92	8	5	-	-	4-6	4-6	2500
Gorleston	1003·8	+36	N'W	4	c	38	85	7	8	-	-	7-8	7-8	2500
Mildenhall	1007·0	+34	NW'N	3	bc	30	92	7	5	-	-	2-3	2-3	2500
Cranwell	1008·0	+26	NW'N	4	b	30	92	7	5	-	-	1	1	2500
Birmingham	1010·5	+20	NW	3	b	27	85	6	-	4	-	0	1	-
Upper Heyford	1009·7	+28	NW	3	zo	28	85	6	-	-	-	0	0	-
Ross-on-Wye	1011·4	+20	S	1	b	30	92	7	-	-	1	0	Tr	-
Hartland Point	1012·0	+20	N	5	bc	40	75	8	7	1	8	1	4-6	2500
Bristol	1011·9	+30	W	2	zo	29	85	6	-	7	-	0	2-3	-
Portland Bill	1011·1	+26	NNW	3	b	37	92	7	-	-	-	0	0	-
Plymouth	1012·7	+20	ENE	1	bc	33	92	7	5	-	-	2-3	2-3	2500
The Lizard	1012·8	+16	NNW	2	bc	35	97	8	8	-	-	4-6	4-6	2500
Scilly (St. Mary's)	1013·1	+6	N	2	c	39	65	8	4	4	7	1	10	2500
Guernsey	1011·0	+30	NW'N	3	c	40	65	7	2	-	-	7-8	7-8	2500
Pembroke	1012·0	+14	N'W	3	bc	38	92	7	8	2	-	2-3	4-6	1500
Holyhead	1010·8	+12	NNW	3	b	38	75	8	1	-	-	1	1	4000
Chester (Sealand)	1011·0	+14	-	0	bF	18	92	1	-	-	-	0	0	-
Manchester	1010·3	+20	W	1	zo	22	97	5	-	-	-	0	0	-
Spurn Head	1005·8	+22	NW'W	6	pr	35	97	7	9	3	-	2-3	4-6	1500
Catterick	1009·1	+12	WNW	2	b	25	75	8	-	-	-	0	0	-
Tynemouth	1007·8	+8	NW	3	bc	28	75	6	2	-	-	2-3	2-3	2500
St Abbs Head	1007·4	+4	WNW	4	b	33	75	7	-	4	-	0	Tr	-
Leuchars	1008·0	+2	W	3	bc	28	65	9	8	4	-	1	2-3	4000
Renfrew (Abbots I.)	1010·0	+4	-	0	m	20	92	4	5	6	-	2-3	4-6	4000
Eskdalemuir	1010·8	+4	-	0	b	17	75	8	-	-	1	0	1	-
Point of Ayre	1010·3	+4	N'W	3	b	37	75	8	4	-	-	Tr	Tr	1500
Tiree	1008·7	0	SE'E	1	bc	34	97	9	8	-	-	2-3	2-3	2500
Stornoway	1009·0	+4	NNW	2	bc	33	85	8	3	-	-	4-6	4-6	4000
Dalwhinnie	*	0	-	0	bc	15	97	8	-	4	1	0	2-3	-
Aberdeen	1007·2	+4	NW'N	3	b	31	92	7	8	-	-	1	1	2500
Wick	1006·6	0	WNW	3	bc	27	97	8	3	7	3	4-6	4-6	1500
Lerwick	1005·0	-2	N	5	c/ps	35	85	8	8	7	-	4-6	7-8	800
Blacksod Point	1010·7	-4	SE	1	c	37	97	8	-	2	-	0	10	-
Malin Head	1010·2	+4	SW	2	bc	33	75	8	2	-	1	2-3	4-6	5700
Aldergrove	1011·9	+4	SSW	3	b	19	97	7	-	-	-	0	0	-
Birr Castle	1011·9	*	-	0	c	22	97	7	5	-	-	10	10	1500
Valentia Obsy. †	1011·4	-8	S'E	2	iro	37	85	7	5	-	-	10	10	2500
Roches Point	1013·0	-2	E	2	bc	32	85	8	5	-	5	1	4-6	2500

PAST 24 HOURS.

Stations	State of Ground 0–9 (29)	Sea 0–9 (30)	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F. (32)	Temperature Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 4th Hrs. (36)
London (Kew)	1	*	45	32	27	3	4	0·0
Croydon	1	*	46	32	29	2	0·1	0·1
S. Farnborough	3	*	46	31	28	3	1	0·5
Boscombe Down	1	*	46	29	26	0·5	6·3	1·8
Calshot (Sthmtn.)	1	1	49	31	30	1	0·1	3·7
Lympne	7	§1	44	33	30	7	0·1	0·1
Manston	1	*	45	34	32	4	0·3	0·2
Shoeburyness	3	*	45	32	28	3	-	0·0
Felixstowe	1	4	42	33	31	7	0·4	0·0
Gorleston	1	3	40	34	31	15	1	0·0
Mildenhall	8	*	35	29	*	6	8	0·0
Cranwell	8	*	34	29	27	2	2	0·0
Birmingham	7	*	32	26	22	2	1	0·0
Upper Heyford	4	*	34	27	20	0·5	1	*
Ross-on-Wye	4	*	34	29	25	0·4	1	0·0
Hartland Point	1	3	46	38	37	Tr	-	1·0
Bristol	1	*	43	29	24	Tr	1	0·2
Portland Bill	1	3	48	35	*	-	-	*
Plymouth	1	1	47	33	29	0·3	-	3·4
The Lizard	1	1	48	34	*	1	0·5	4·0
Scilly (St. Mary's)	1	2	48	38	*	2	-	2·6
Guernsey	1	2	51	39	36	0·3	Tr	2·1
Pembroke	1	2	45	34	*	Tr	4	0·0
Holyhead	1	2	39	38	32	4	-	0·0
Chester (Sealand)	8	*	33	18	19	7	1	0·0
Manchester	8	*	34	19	11	8	-	0·0
Spurn Head	1	4	38	34	*	4	2	0·0
Catterick	8	*	34	25	15	4	1	0·0
Tynemouth	8	2	40	28	25	1	0·6	0·0
St Abbs Head	3	3	37	32	*	1	0·3	*
Leuchars	3	*	30	25	18	-	-	0·9
Renfrew (Abbots I.)	9	*	34	19	14	-	-	2·5
Eskdalemuir	8	*	31	17	9	-	-	1·3
Point of Ayre	3	2	38	36	*	-	-	0·9
Tiree	3	1	36	27	21	-	-	6·4
Stornoway	8	1	36	31	*	Tr	Tr	5·9
Dalwhinnie	8	*	21	8	7	-	-	4·0
Aberdeen	4	1	31	27	24	-	-	4·4
Wick	8	1	32	26	*	0·3	0·1	*
Lerwick	8	*	39	31	*	-	0·3	3·7
Blacksod Point	3	2	50	32	*	Tr	-	*
Malin Head	3	2	38	28	*	-	-	3·7
Aldergrove	8	*	33	14	13	-	-	1·0
Birr Castle	3	*	35	22	15	-	-	0·7
Valentia Obsy. †	1	2	43	30	26	Tr	Tr	1·0
Roches Point	1	2	39	29	*	-	-	*

LONDON OBSERVATIONS

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except for rainfall which is 9h—18h.

Station	Height above M.S.L. in feet	Weather Morning	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. Yesterday	Humidity 15h. G.M.T. % Yesterday	Humidity 9h. G.M.T. % To-day	Visibility 9h. To-day
		24 hrs. ended 9h.											
Kew	18	cmrorom	cmoidoro	crorosmx	45	32	27	3	4	0·0	*	*	5
Croydon	217	orrmo	cprofmr	cmdsfc	46	32	29	2	0·1	0·1	*	*	4
Greenwich (Royal Observatory)	149	rcirm	circm	cirbxm	45	32	28	0·5	0·5	0·0	91	83	4
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0·0	*	*	*
Westminster (St. James' Park)	27	*	*	*	46	33	27	3		*	92	83	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	45	31	28	2	-	0·0	100	88	*
Camden Square	110	o	c	*	45	31	28	3	-	*	*	85	*
Kensington	80	c	cps	*	45	32	28	2	1	0·0	At 18h. 96	83	*
Hampstead Observatory	450	ors	or	ofxsbc	43	29	20	3	Tr	0·0	*	89	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 5th.

	Max.	Time.	Min.	Time.
South Kensington.	0·6	18-20h 4th	<0·3	1-4h. 5th
Kew Observatory.	0·4	17h. 4th	<0·1	0-1h. 5th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 4th January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 5th January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris	1001·0	SW	3	bc	43	1004·3	WNW	4	o	39	45	37	2	3
Brussels	998·6	SSW	6	c	39	1000·2	WSW	3	o	37	39	36	2	4
Berlin						1008·2	SSE	2	c	30		28		2
Zurich	1012·1	SE	1	c	30	1007·6	SE	1	c	30	43	28	0·6	-
Rome	1013·8	NNE	2	bc	50	1012·6	ENE	3	bc	34	*	*	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	<1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	> 75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1¼ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6¼ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30.—Code for State of Sea.

0 Calm. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 Precipitous.
4 Rough. 9 Confused.

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY, LONDON, W.C.2. N. K. JOHNSON, M.Sc., A.R.C.S., Director.

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § See disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 6th January, 1939.

No. 28169

OBSERVATIONS at 13h. G.M.T. 5th January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	°Temp. F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1012·8	+10	NNW	2	z.	37	65	5	-	-	6	0	7-8	-
	Croydon ...	1012·3	+10	W	3	m	36	75	4	-	-	6	0	4-6	-
	S. Farnborough	1013·4	+6	WNW	2	z.	35	65	6	-	-	6	0	7-8	-
	Boscombe Down	1014·4	+12	NNW	2	z.⊕	35	75	6	-	-	7	0	10	-
	Calshot (Sthmtn.)	1013·8	+8	WNW	3	z.	37	75	6	-	-	6	0	7-8	-
	Lympne ...	1011·7	+18	NNW	4	z.	36	75	6	-	4	-	0	Tr	-
	Manston ...	1010·4	+16	NNW	4	z.	36	85	6	5	-	-	Tr	Tr	1500
2	Shoeburyness ...	1011·1	+18	NW	3	b	37	75	6	-	-	5	0	1	-
	Felixstowe ...	1010·1	+18	NW	4	b	35	85	7	7	-	-	Tr	Tr	2500
	Gorleston ...	1009·7	+18	NNW	4	bc/phr	38	85	6	8	-	-	4-6	4-6	2500
	Mildenhall ...	1011·3	+18	NNW	3	z.	33	75	6	-	3	-	0	Tr	-
	Cranwell ...	1011·8	+10	W	3	m	31	75	4	-	-	-	0	0	-
3	Birmingham ...	1013·1	+12	WNW	2	m	33	85	4	-	-	6	0	7-8	-
	Upper Heyford	1013·7	+20	WNW	2	z.	33	85	6	-	-	7	0	10	-
4	Ross-on-Wye	1013·6	+8	SW	1	c	34	75	8	-	-	2	0	7-8	-
5	Hartland Point	1014·0	+8	S	3	c	39	75	8	1	4	6	Tr	9+	2500
	Bristol ...	1014·2	+6	WNW	3	z.	37	75	6	-	1	6	0	7-8	-
	Portland Bill ...	1013·8	+4	N	3	c	40	92	7	5	-	-	7-8	7-8	2500
	Plymouth ...	1014·3	+2	NNE	1	z.	41	75	5	5	4	-	2-3	2-3	2500
	The Lizard ...	1013·9	+8	NW	1	c	43	75	8	8	2	-	7-8	9+	2500
	Scilly (St. Mary's)	1013·1	-6	SE	2	c	44	65	8	5	2	-	2-3	9+	2500
	Guernsey ...	1013·8	+6	NW	1	c	44	65	8	1	7	-	4-6	7-8	2500
6	Pembroke ...	1014·1	+6	SE	1	c	42	85	7	8	6	2	4-6	7-8	1500
7	Holyhead ...	1013·1	+6	WN	3	c	41	65	8	1	-	8	Tr	7-8	4000
	Chester (Sealand)	1013·2	+6	-	0	m/f	27	97	4	5	8	-	1	4-6	2500
8	Manchester ...	1013·2	+8	SW	2	f-	20	97	3	1	-	6	4-6	4-6	7200
10	Spurn Head ...	1010·0	+8	NW	3	bc	35	75	6	2	-	8	2-3	4-6	4000
	Catterick ...	1011·1	+6	WS	3	b	34	55	8	-	-	5	0	Tr	-
	Tynemouth ...	1008·8	+8	W	3	bc	32	75	5	2	-	-	2-3	2-3	1500
11	St. Abbs Head ...	1010·1	+4	WNW	4	bc	35	97	7	-	4	-	0	2-3	-
	Leuchars ...	1010·3	+8	WSW	3	b	36	65	8	-	4	-	0	Tr	-
12	Renfrew (Abbots I.)	1011·7	+4	WSW	1	m/f	35	75	4	-	-	1	0	1	-
	Eskdalemuir ...	1011·5	0	NWW	2	b	27	75	8	-	4	1	0	Tr	-
	Point of Ayre ...	1012·1	+4	NWW	3	c	42	65	8	5	-	-	7-8	7-8	2500
13A	Tiree ...	1010·6	+4	ESE	1	bc	35	97	8	8	3	-	4-6	4-6	1500
13B	Stornoway ...	1012·0	+8	WNW	1	bc	35	85	8	5	-	-	2-3	2-3	4000
15	Dalwhinnie ...	*	+2	-	0	bc	25	92	7	4	6	-	2-3	4-6	2500
	Aberdeen ...	1008·9	+10	NWW	3	b	34	75	6	8	-	-	1	1	2500
	Wick ...	1009·3	+12	WNW	3	bc	32	97	8	8	7	3	2-3	4-6	1500
16	Lerwick ...	1008·7	+10	E	5	c/ps	36	65	8	8	7	-	4-6	7-8	800
17	Blacksod Point	1012·1	0	S	1	c	39	97	9	-	7	-	0	10	-
18	Malin Head ...	1011·2	+2	SWS	3	cjp	38	85	8	8	6	-	4-6	7-8	5700
	Aldergrove ...	1013·0	+2	SWS	2	c⊕	29	92	7	5	-	8	1	7-8	1500
19	Birr Castle ...	1013·2	+4	SW	1	c	31	97	7	5	-	-	10	10	1500
20	Valentia Obsy. †	1011·1	-10	SEE	4	c	41	75	8	5	-	-	10	10	1500
	Roches Point	1013·7	-2	S	2	c	43	65	8	6	2	-	4-6	9+	1500

OBSERVATIONS at 18h. G.M.T. 5th January

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	°Temp. F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1015·3	+14	SSW	1	z.	32	85	5	-	-	6	0	7-8	-	1	*
	Croydon ...	1014·7	+14	WN	2	bc/f	32	85	4	-	-	2	0	2-3	-	3	*
	S. Farnborough	1015·7	+6	WSW	1	z.	30	92	6	-	7	6	0	7-8	-	3	*
	Boscombe Down	1016·3	+16	NW	1	z.	33	92	5	-	7	7	0	7-8	-	1	*
	Calshot (Sthmtn.)	1016·0	+10	WNW	1	z.	33	85	6	-	-	6	0	7-8	-	1	1
	Lympne ...	1014·9	+20	NWN	3	z.	32	75	5	-	-	1	0	1	-	1	§ 2
	Manston ...	1013·9	+20	NNW	3	z.	34	75	5	-	-	1	0	1	-	1	*
2	Shoeburyness ...	1014·2	+14	NW	2	bc	33	75	5	-	-	5	0	2-3	-	3	*
	Felixstowe ...	1013·5	+18	WNW	3	z.	33	75	6	-	-	-	0	0	-	3	3
	Gorleston ...	1012·1	+20	WNW	2	b	32	85	6	-	-	-	0	0	-	1	2
	Mildenhall ...	1013·3	+16	WSW	3	z.	24	92	5	-	-	-	0	0	-	8	*
	Cranwell ...	1013·4	+10	W	2	m	26	92	4	-	-	-	0	0	-	8	*
3	Birmingham ...	1014·2	+4	W	2	m	30	85	4	-	-	-	0	0	-	7	*
	Upper Heyford	1015·1	+6	WNW	1	z.	29	92	6	-	-	2	0	4-6	-	4	*
4	Ross-on-Wye	1015·6	+8	-	0	z.	29	92	6	-	-	1	0	2-3	-	4	*
5	Hartland Point	1014·5	-2	SSE	3	bcjp	37	75	8	5	4	-	2-3	2-3	1500	1	2
	Bristol ...	1015·9	+10	-	0	z.	31	85	6	-	1	8	0	4-6	-	1	*
	Portland Bill ...	1016·1	+12	NE	3	c	36	92	7	5	4	-	4-6	7-8	2500	1	3
	Plymouth ...	1015·5	+10	ESE	1	z.	40	65	6	5	7	-	4-6	7-8	4000	1	1
	The Lizard ...	1014·9	+4	NW	2	c	43	85	8	8	1	-	7-8	7-8	2500	1	1
	Scilly (St. Mary's)	1014·8	+6	SSE	2	c/d	39	92	8	8	2	-	1	9+	1500	1	2
	Guernsey ...	1015·7	+10	-	0	c	38	85	6	8	3	-	7-8	9+	2500	1	2
6	Pembroke ...	1014·6	+6	NE	1	c	40	97	7	8	-	-	9+	9+	1500	1	2
7	Holyhead ...	1014·2	+6	WS	3	bc	37	65	7	-	5	8	0	4-6	-	1	1
	Chester (Sealand)	1014·5	+8	-	0	z.	28	85	6	-	-	-	0	0	-	7	*
8	Manchester ...	1014·5	+12	E	1	F	18	97	1	-	-	-	10	10	1150	8	*
10	Spurn Head ...	1011·4	+14	WNW	4	bc	35	75	6	-	-	8	0	2-3	-	3	2
	Catterick ...	1013·0	+14	WNW	2	bc	29	65	8	-	-	5	0	2-3	-	8	*
	Tynemouth ...	1011·9	+12	W	3	bc	31	85	6	5	-	-	2-3	2-3	1500	3	2
11	St. Abbs Head ...	1011·4	+2	NW	4	b	35	75	5	-	-	-	0	0	-	3	3
	Leuchars ...	1012·1	+14	W	4	z.	30	85	6	-	4	-	0	Tr	-	3	*
12	Renfrew (Abbots I.)	1013·5	+14	WS	1	bf	26	97	3	-	-	-	0	0	-	3	*
	Eskdalemuir ...	1012·9	+8	SSE	1	bc	30	85	8	5	-	-	2-3	2-3	1500	8	*
	Point of Ayre ...	1013·3	+10	WS	2	b	31	85	8	4	-	-	1	1	4000	3	1
13A	Tiree ...	1012·3	+12	-	0	b	34	97	8	1	-	-	1	1	2500	5	1
13B	Stornoway ...	1013·5	+10	ENE	2	bc/pr	37	75	8	8	-	3	2-3	2-3	2500	8	1
15	Dalwhinnie ...	*	+12	-	0	c	20	97	7	4	6	-	4-6	7-8	2500	8	*
	Aberdeen ...	1011·2	+18	NW	3	b	32	92	6	8	-	-	1	1	2500	4	1
	Wick ...	1011·2	+16	NW	4	psh	34	92	8	8	7	-	4-6	4-6	1500	8	1
16	Lerwick ...	1011·7	+16	E	5	bc	32	85	8	8	-	-	4-6	4-6	1500	4	*
17	Blacksod Point	1012·1	+4	SSE	3	c/r	38	97	8	-	7	-	0	7-8	-	3	3
18	Malin Head ...	1012·9	+16	SW	3		36	85	7	9	7	-	4-6	7-8	4000	1	2
	Aldergrove ...	1014·3	+10	SSW	2	c	26	97	7	5	-	6	2-3	9+	1500	8	*
19	Birr Castle ...	1013·5	+4	SW	1	c	33	92	7	5	-	-	10	10	1500	3	*
20	Valentia Obsy. †	1011·1	+2	E	3	c	42	85	8	5	-	-	9	9	1500	1	2
	Roches Point	1014·0	-2	SSE	4	r.r.	40	85	8	6	2	-	4-6	10	1500	1	3

PAST 24 HOURS.

District	Stations	Weather. 7h.—13h. 5th. (37)	13h.—18h. 5th. (38)	18h.—1h. 5th to 6th. (39)	1h.—7h. 6th. (40)
1	London (Kew)	bm.xbbcm.	cm.cz.	cz.x	bcm.x
	Croydon ...	bm.bcm⊕	bczcfbm.	bccmm.x	cbcm.x
	S. Farnborough	bm.xbcm.	bc⊕bcmx	bcbmx	bbcmx
	Boscombe Down	bm.cm.	cm.	cm.bcm.	bm.x
	Calshot (Sthmtn.)	bxm.cm.	bcmcmw	bxmcx	cxmbcf
	Lympne ...	bm.x	bz.	bm.mx	bxm
	Manston ...	bcbcm.	bcbm.	bm.fx	bffx
2	Shoeburyness ...	bm.	bbcm.x	bm.cmx	xcm.bm
	Felixstowe ...	bcps.b	bbm.	bm.	bm.x
	Gorleston ...	cprsphrbc	bcbz.x	bzmfx	bzzx
	Mildenhall ...	bbm.	bm.	bmxbcmx	bmxbcmx
	Cranwell ...	bm.xbm	bm	bmx	bmx
3	Birmingham ...	bbcm	bcbm	b	b
	Upper Heyford	bm.cm.	cbcm.	bc'bm.	bm.x
4	Ross-on-Wye	bbcc	cbcm.	bm.bcbm	bmxcm
5	Hartland Point	bcc	cbc	bcc	c
	Bristol ...	bxbc	bcz.jf	bccbcbx	bxbbc
	Portland Bill ...	c	c	c	c
	Plymouth ...	b,cm.bcz.	bcczy	cz.bc	bcc
	The Lizard ...	c	c	c	cir.
	Scilly (St. Mary's)	cbcc	cid.	cid.	cidc
	Guernsey ...	c	bcc	c	cbc
6	Pembroke ...	bcc	c	crrm.	cir.
7	Holyhead ...	b,c⊕	c⊕b	bcbx	bcc
	Chester (Sealand)	bFF	bc⊕bm.	bccmbf⊕	bfbcfx
8	Manchester ...	oFFbcf	bc ff	oFF	oFF
10	Spurn Head ...	cbcz.	bcz.	bzff	bffm
	Catterick ...	by	bybbc	bbcbx	bxbcx
	Tynemouth ...	bc	bc	bc	bc
11	St. Abbs Head ...	b	bcm.b	bm.	mb
	Leuchars ...	bxvb	bxm.	bxm.bx	bx
12	Renfrew (Abbots I.)	bcxmfbm	bcbff	bFFx	oFFx
	Eskdalemuir ...	bx	bxbc	bcx	bcbbcx
	Point of Ayre ...	bbc	cbc	bbcc	bcc
13A	Tiree ...	phrsc	bcpr.	b	bcc
13B	Stornoway ...	cbcps	bc'pr.	b	b
15	Dalwhinnie ...	bc	bc	*	bcb
	Aberdeen ...	bbz.	bps.b	bps.b	bm.
	Wick ...	cpsbc	bcpsh	pshbc	bcb
16	Lerwick ...	cps	cbc	bccps	cpsis.
17	Blacksod Point	c	cbc	cbc	pr.c
18	Malin Head ...	cpr.c	clrc	circcbd	bcfc
	Aldergrove ...	bxFFcm.c	cbbcc	cbbcm.	bcom.x
19	Birr Castle ...	c	c	c	cx
20	Valentia Obsy. †	ir.r.c	c	cdc	c
	Roches Point	cps.c	ps.r.r.	iradr	oidcm

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog ,, less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s., slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s./k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r., slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
⊕, Solar halo. ⦶ lunar halo. Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicat the total amount of all forms of cloud.
An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. ,, wet.
2 .. ,, flooded.
3 .. ,, frozen hard and dry.
4 .. ,, partly covered with snow or hail.
5 .. ,, covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. ,, covered with snow, less than 6 ins., deep but ground not frozen.
8 .. ,, covered with snow, less than 6 ins., but ground frozen
9 .. ,, covered with snow greater than 6 ins. deep.

NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2*

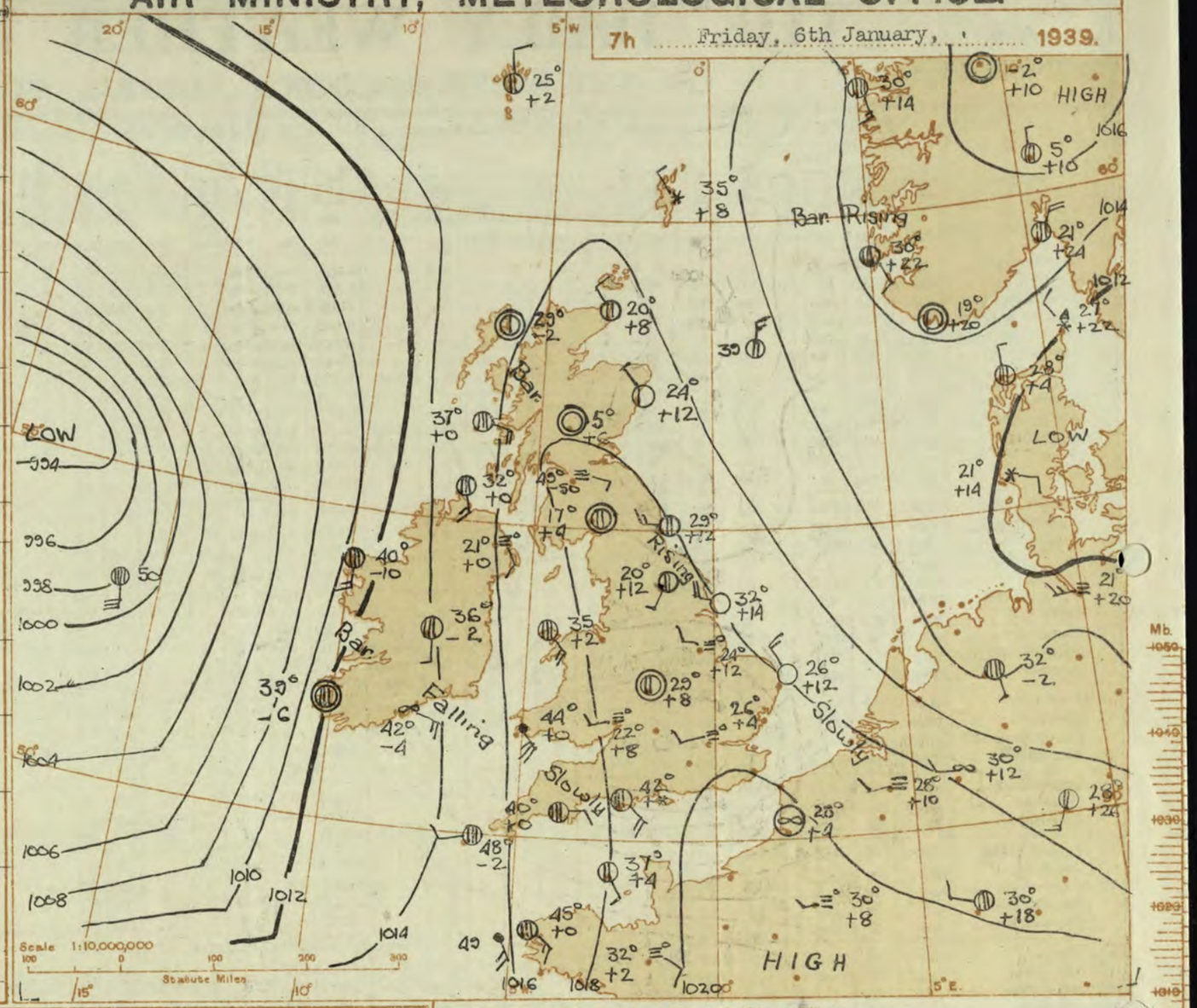
† Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 5th January 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F.) Min. 9h. 4th to 9h. 5th	Temperature. (°F.) Max. 9h.—17h. 5th	Rainfall. (mm.) Night. 17h. 4th to 9h. 5th	Rainfall. (mm.) Day. 9h.—17h. 5th	Sunshine (hrs) Sunrise to Sunset. 5th.
1	Tunbridge W.	bbc	bcc	30	36	0·3	1	3·3
	Bournemouth	bbc	bbcc	31	38	0·5	-	4·8
	Ventnor ...	xb	bcz	31	40	-	-	6·4
	Southsea ...	bbc	bcb	31	39	Trace	-	5·3
	Bognor Regis	bbc	bcb	31	38	-	-	4·7
	Littlehampton	bbc	bc	32	39	-	-	4·0
	Worthing ...	b	bcc	32	37	0·3	-	4·0
	Brighton ...	bbc	bc	32	37	-	-	3·8
	Eastbourne† ..							
	Hastings† ...	b	bcb	32	40	Trace	-	4·5
	Folkestone ..	m.b	bbc	32	39	0·5	-	5·7
	Dover ...	bcb	bbc	33	39	1	-	6·1
	Deal	cbcb	b	33	37	0·3	-	4·5
	Ramsgate ...	bc	bc	34	37	1	-	5·0
	Margate ...	bc	bc	35	38	1	-	5·4
2	Southend ...	bm.	bm.	31	37	Trace	-	6·1
	Clacton-on-Sea	xb	bm	31	36	-	-	6·0
	Dovercourt ...	bc	bx	32	36	Trace	-	*
	Lowestoft ...	cbcph	phbcb	29	39	1	0·2	4·4
	Skegness ...	cbcb	b	29	37	4	-	5·0
	Mablethorpe...	asbc	b	32	35	4	Trace	5·0
	Cleethorpes ...	bcx	bx	31	35	1	-	5·0
3	Leamington S.	bz	bz	27	35	1	-	1·2
4	Cheltenham†	bybc	bcyby	25	35	2	-	0·8
5	Bath	bbcc	bbcc	31	39	1	-	2·5
	Weymouth ...	b	bbc	32	42	-	-	4·8
	Jersey ...	cbc	bc	40	45	1	-	2·8
	Torquay ...	bcm.	bccm.	33	40	-	-	1·9
	Falmouth	c	c	33	45	3	-	1·9
	Penzance ...	bcc	c	36	44	1	-	0·0
	St. Ives ...							
	Bude... ...	bc	cbc	30	41	-	-	1·0
	Ilfracombe ...	cocbc	cbcc	33	41	-	-	1·5
6	Aberystwyth	xbcc	bcc	26	36	1	-	1·1
7	Llandudno ...	bcc	bcb	31	40	2	-	3·8
	Colwyn Bay...	bcb	bcb	30	38	1	-	3·2
	Rhyl	bc	bcb	25	38	0·6	-	1·0
8	Wallasey ...	bcfbc	bc	26	38	3	-	3·4
	Southport ...	bxfbc	bbcb	22	40	Trace	-	3·6
	Blackpool ...	bfbm	bcbm.	18	40	-	0·3	2·6
	Morecambe	oxbc	bcf	24	38	-	Trace	4·6
9	Ilkley... ...	b	b	24	34	0·4	-	6·6
	Harrogate ...	b	b	25	33	0·1	-	6·5
10	Berwick-on-T.	b	b	22	31	1	-	5·8
11	Dunbar ...	bcm.x	cm.	25	34	-	-	4·2
12	Troon... ...	xcbc	cmc	24	36	-	-	3·0
	Douglas ...	bcx	b	30	40	-	-	5·1

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.-9h.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 6th January, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Wind variable at first becoming moderate southerly; fair at first apart from fog in many places to-day and to-night. Sleet changing to rain later; cold at first; temperature rising.
5 S.W. England 6 South Wales ... 7 North Wales ...	Wind freshening from south. Cloudy, some rain or sleet changing to rain; fog in many places. Temperature rising considerably.
8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland	As 1 - 4.
15 N. E. Scotland 16 Orkney and Shetland	Wind variable light; fine and cold at first; some snow later. Very cold at first, but temperature rising.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 5 - 7.

GENERAL INFERENCE.

A ridge of high pressure over Britain is moving eastwards before a complex depression on the Atlantic.

Sleet changing to rain in all districts will spread across the country during the next 24 hours and the temperature will rise considerably.

FURTHER OUTLOOK.

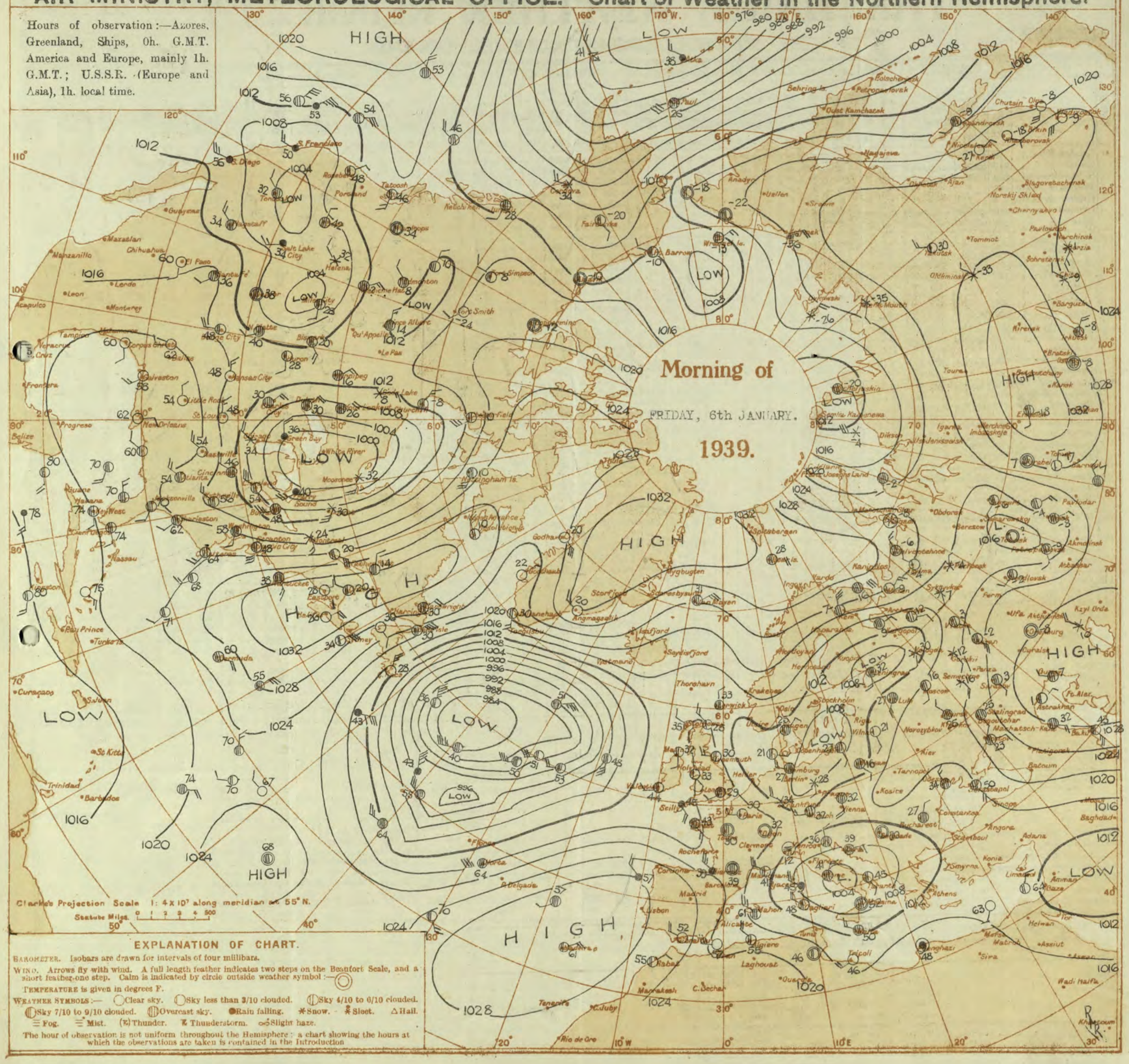
Southerly winds in all districts with a considerable rise of temperature.

Forecasts issued at 10.30 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S.
Director.

H.M. Stationery Office Press, Kingsway, W.C.2

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday, 6th January, 1939.
No. 28169

OBSERVATIONS at 1 hr. G.M.T. 6th January

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1017·8	+10	SW'W	2	Z_o	29	85	5	-	4	2	0	9	-
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1017·8	+6	NNW	3	m	28	92	4	-	-	5	0	1	-
	Manston ...	154	1017·2	+6	W'N	1	bf+	29	85	3	-	-	-	0	0	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1015·1	+6	NNW	3	m	28	92	4	-	-	-	0	0	-
	Mildenhall ...	19	1016·4	+14	WSW	3	m	22	97	4	-	-	-	0	0	-
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1016·5	+10	SSE	4	c	38	65	8	5	-	-	9+	9+	2500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1017·1	-2	E	2	c	36	92	7	4	-	-	7-8	7-8	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1016·1	+8	S	3	c	44	92	7	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	1015·0	+2	S'E	4	id.	45	92	7	5	2	-	7-8	10	1500
	Guernsey ..	175	1017·2	+4	SSE	1	c	39	85	9	7	7	8	4-6	7-8	2500
6	Pembroke ...	142	1016·4	0	S	3	r.r.	42	97	5	5	-	-	9+	9+	800
7	Holyhead ...	26	1016·4	+16	SE	1	b	33	85	7	1	4	-	Tr	1	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1014·8	+8	WNW	5	bf	31	97	3	-	-	-	0	0	-
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1014·7	+18	W	3	bc	30	75	6	2	-	-	2-3	2-3	2500
11	St Abbs Head . .	280	1015·2	+20	WNW	3	bc	33	75	6	2	-	-	2-3	2-3	2500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1015·8	+14	W	2	c	33	85	8	5	3	-	Tr	7-8	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1015·8	+8	WNW	2	b	35	92	8	-	-	-	0	0	-
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1014·8	+12	NW	3	bc	25	92	8	8	4	-	2-3	2-3	1500
16	Lerwick ...	156	1014·1	+10	N	2	c/ps	33	85	8	8	6	-	4-6	7-8	800
17	Blacksod Point	18	1012·4	+2	SSE	2	c	38	97	8	-	5	-	0	7-8	-
18	Malin Head ...	84	1015·0	+12	S	1	bc	32	85	8	5	-	1	2-3	4-6	5700
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1012·5	+6	WSW	2	bc	44	92	7	1	-	-	2-3	2-3	4000
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 6th January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1019·7	+8	WSW	1	Z_o	27	92	5	-	-	2	0	4-6	-	3	*
Croydon ...	1019·7	+4	SWW	2	Z_o	26	85	6	-	4	2	0	4-6	-	1	*
S. Farnborough	1020·5	+6	-	0	m	20	97	4	-	3	-	0	1	-	3	*
Boscombe Down	1020·1	+6	-	0	Z_o	27	92	6	-	4	-	0	2-3	-	3	*
Calshot (Sthmtn.)	1019·7	-2	N	1	bcf	28	97	3	-	3	1	0	4-6	-	3	0
Lympne ...	1019·7	+6	NW	3	Z_o	28	92	5	-	-	8	0	2-3	-	3	1
Manston ...	1019·4	+6	W	2	bcf	27	92	3	-	-	4	0	2-3	-	1	*
Shoeburyness ...	1019·4	+6	WSW	1	m	28	85	4	-	-	-	0	0	-	3	*
Felixstowe ...	1018·7	+6	WNW	3	Z_o	29	85	5	-	-	6	0	2-3	-	3	2
Gorleston ...	1017·2	+12	NNW	3	m	26	85	4	-	-	-	0	0	-	3	2
Mildenhall ...	1019·1	+10	SW'S	2	m	23	97	4	-	4	-	0	Tr	-	8	*
Cranwell ...	1018·8	+12	W	2	m	24	92	4	-	-	-	0	0	-	8	*
Birmingham ...	1019·8	+8	-	0	bc	29	85	7	-	3	-	0	2-3	-	8	*
Upper Heyford	1020·1	+6	SSW	1	Z_o	23	97	6	-	-	5	0	1	-	4	*
Ross-on-Wye	1019·7	+8	WSW	1	m	22	97	4	5	3	-	1	9+	1500	4	*
Hartland Point	1016·4	-2	SE	4	c	39	75	8	5	1	-	4-6	10	2500	1	2
Bristol ...	1019·4	+2	NW	1	Z_o	28	92	6	5	7	-	7-8	9	1500	3	*
Portland Bill ...	1019·3	*	SE	3	c	42	92	7	5	4	-	10	10	2500	1	2
Plymouth ...	1017·4	0	E	2	c	40	75	7	8	-	-	9+	9+	2500	1	1
The Lizard ...	1016·3	0	SSE	4	r.r.	45	97	6	5	-	-	10	10	1500	1	3
Scilly (St. Mary's)	1015·1	-2	WSW	2	c	48	92	8	5	7	-	4-6	10	1500	1	1
Guernsey ..	1018·4	+4	SSE	1	bc	37	85	8	7	3	-	4-6	4-6	2500	1	2
Pembroke ...	1016·5	0	SE'S	5	rr	44	85	6	5	-	-	10	10	1500	1	2
Holyhead ...	1016·9	+2	SE'S	3	c	35	92	8	5	7	-	1	10	4000	3	0
Chester (Sealand)	1019·0	+10	SSE	1	bcf	14	97	2	-	5	-	0	4-6	-	7	*
Manchester ...	1019·3	+12	NE'E	1	F	15	97	0	-	-	-	10	10	<150	8	*
Spurn Head ...	1017·4	+14	WNW	4	m	32	92	4	-	-	-	0	0	-	3	2
Catterick ...	1019·0	+12	SSW	1	bc	20	97	8	-	3	-	0	4-6	-	8	*
Tynemouth ...	1017·9	+12	W	3	bc	29	92	6	2	-	-	2-3	2-3	1500	3	2
St Abbs Head . .	1017·5	+12	WNW	1	bc	33	85	7	-	3	-	0	2-3	-	3	2
Leuchars ...	1017·8	+8	W	2	b	23	85	8	-	3	-	0	1	-	3	*
Renfrew (Abbots I.)	1018·9	+12	E'S	1	F	25	97	1	-	-	-	10	10	4150	3	*
Eskdalemuir ...	1019·7	+8	-	0	bc	17	85	8	-	-	6	0	4-6	-	8	*
Point of Ayre...	1017·5	+4	SE	3	c	38	92	7	5	3	-	Tr	7-8	800	3	1
Tiree	1015·1	0	SE'E	4	c	37	97	8	5	3	-	2-3	7-8	2500	5	*
Stornoway ...	1015·9	-2	-	0	b	29	92	8	1	5	-	Tr	1	4000	8	0
Dalwhinnie ...	*	+6	-	0	b	5	97	8	-	6	-	0	Tr	-	8	*
Aberdeen ...	1018·0	+12	NWW	1	b	24	97	6	5	-	-	Tr	Tr	4000	5	1
Wick ...	1016·2	+8	NW	2	b	20	97	8	1	-	-	1	1	2500	8	1
Lerwick ...	1015·1	+8	NW	1	is.	35	92	8	8	7	-	4-6	9	800	8	*
Blacksod Point	1011·0	-10	S	3	c	40	97	8	5	-	-	10	10	1500	1	3
Malin Head ...	1015·1	0	SE	3	c	32	65	8	5	9	-	4-6	7-8	5700	3	2
Aldergrove ...	1016·4	0	SSE	2	Z_o	21	97	6	-	3	-	0	9+	-	8	*
Birr Castle ...	1014·1	-2	S	1	c	36	97	7	5	-	-	9	9	1500	3	*
Valentia Obsy. †	1013·0	-6	-	0	c	39	92	8	-	7	-	0	10	-	1	2
Roches Point	1013·5	-4	ESE	3	m	42	97	4	5	3	5	2-3	9	450	1	3

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F. (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine Hrs. (36)
London (Kew)	37	25	13	-	Tr	5·1
Croydon ...	37	24	22	-	-	2·5
S. Farnborough	35	19	16	-	Tr	4·1
Boscombe Down	36	23	17	-	-	4·2
Calshot (Sthmtn.)	39	27	24	-	-	5·2
Lympne ...	37	26	21	-	Tr	6·4
Manston ...	37	27	24	-	-	4·9
Shoeburyness ...	38	27	18	-	-	6·0
Felixstowe ...	36	28	25	Tr	-	6·0
Gorleston ...	39	26	25	0·2	-	3·3
Mildenhall ...	33	20	16	-	-	5·3
Cranwell ...	32	24	19	-	-	5·4
Birmingham ...	35	27	14	-	-	2·5
Upper Heyford	35	22	12	-	-	*
Ross-on-Wye	36	21	10	-	-	2·7
Hartland Point	41	36	34	-	-	0·3
Bristol ...	39	23	16	-	-	4·4
Portland Bill ...	47	35	*	-	-	*
Plymouth ...	43	37	34	-	-	1·2
The Lizard ...	44	*	*	-	2	1·0
Scilly (St. Mary's)	45	38	*	Tr	1	0·2
Guernsey ..	44	35	27	-	-	3·3
Pembroke ...	43	38	*	-	2	0·4
Holyhead ...	43	31	25	-	-	3·0
Chester (Sealand)	35	14	14	-	-	0·0
Manchester ...	23	12	13	-	-	0·0
Spurn Head ...	36	31	*	Tr	-	4·4
Catterick ...	35	17	13	-	-	5·9
Tynemouth ...	32	28	25	-	-	5·4
St Abbs Head . .	36	32	*	-	-	*
Leuchars ...	37	22	15	-	-	6·3
Renfrew (Abbots I.)	37	19	16	-	-	3·3
Eskdalemuir ...	35	15	8	-	-	5·8
Point of Ayre...	44	29	*	-	-	5·4
Tiree	37	30	23	4	-	0·7
Stornoway ...	37	28	*	3	-	3·9
Dalwhinnie ...	25	3	-2	-	-	0·4
Aberdeen ...	35	23	18	Tr	Tr	5·6
Wick ...	36	19	*	1	Tr	*
Lerwick ...	39	31	*	0·2	0·3	1·8
Blacksod Point	40	35	*	-	0·4	*
Malin Head ...	40	29	*	3	2	0·9
Aldergrove ...	30	17	14	-	-	3·1
Birr Castle ...	33	31	26	-	-	0·0
Valentia Obsy. †	42	37	32	2	Tr	0·0
Roches Point	43	40	*	1	-	*

LONDON OBSERVATIONS

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except for rainfall which is 9h—18h.

	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon (24 hrs. ended 9h.)	Weather Night (24 hrs. ended 9h.)	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew ...	18	bm,bbc	cm,ez.	cz.x	37	25	13	-	Tr	5·1	•	•	2
Croydon ...	217	bm,bc⊕	bczcfbnx	bcmx⊕	37	24	22	-	-	2·5	•	•	4
Greenwich (Royal Observatory) ...	149	bm	bcxm	bxf⊕	37	25	19	-	Tr	0·8	70	94	3
City (Bunhill Row) ...	—	•	•	•	•	•	•	•	•	2·1	•	•	•
Westminster (St James' Park) ...	27	•	•	•	36	26	20	-	-	*	75	*	•
Regents Pk. (Botanic Gardens)‡ ...	168	•	•	•	37	26	12	-	-	4·5	60	*	•
Camden Square ...	110	b	b	•	38	27	22	-	-	•	•	94	•
Kensington ...	80	b	bz	•	38	27	21	-	0·2	3·3	At 18h. 74	93	•
Hampstead Observatory ...	450	bcx	bcx	bx	35	25	18	-	-	4·7	•	*	•

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 6th

South Kensington Max.	Time.	Min.	Time.	Kew Observatory Max.	Time.	Min.	Time.
1·0	18-21h. 5th.	0·3	4-5h. 6th.	0·8	18h. 15th.	0·1	3h. 6th.

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 5th January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 6th January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris ...	1014·2	NW	3	c	36	1020·6	WSW	1	Z_o	30	41	30	-	-
Brussels ...	1011·7	NW	2	c	34	1018·3	WSW	2	f+	28	37	28	1	-
Berlin ...	1003·7	S	2	is.	34						36		Tr	
Zurich ...	1013·1	W	4	o	34	1020·6	WNW	2	c	28	37	27	2	-
Rome ...	1005·1	ESE	6	dd	46						*	*	16	

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	<1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	> 75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1¼ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6½ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30.—Code for State of Sea.

0 Calm.	5 Very rough.
1 Smooth.	6 High.
2 Slight.	7 Very high.
3 Moderate.	8 Precipitous.
4 Rough.	9 Confused.

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY, LONDON, W.C.2.

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

† 7 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 ‡. § Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday, 7th January, 1939.

No. 28170

OBSERVATIONS at 13h. G.M.T. 6th January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1022.0	0	WSW	2	bcf	35	85	3	-	-	1	0	2-3	-
	Croydon	1021.9	+2	-	0	bf	40	65	2	-	-	-	0	0	-
	S. Farnborough	1022.2	+2	-	0	m/f	40	65	4	-	3	-	0	2-3	-
	Boscombe Down	1021.5	-6	E'S	2	zo	35	75	6	-	7	-	0	9+	-
	Calshot (Sthmtn.)	1022.0	0	ESE	2	zo	39	75	5	-	3	-	0	9	-
	Lympne	1022.2	+2	NWN	1	zo	36	75	5	-	-	-	0	0	-
	Manston	1021.7	+2	WN	2	m	35	85	4	-	-	-	0	0	-
2	Shoeburyness	1021.8	+2	NWW	1	b	39	75	5	-	-	-	0	0	-
	Felixstowe	1021.5	+2	WN	3	zo	35	75	6	-	-	-	0	0	-
	Gorleston	1020.9	+6	NWW	2	bcf	34	85	3	-	4	-	0	2-3	-
	Mildenhall	1021.8	+2	-	0	m	32	85	4	-	-	-	0	0	-
	Cranwell	1021.4	+2	WN	1	m	34	75	4	-	-	-	0	0	-
3	Birmingham	1020.9	+2	SE	2	bf	36	75	2	-	-	-	0	0	-
	Upper Heyford	1022.0	+4	S	1	zo	38	55	5	-	3	8	0	7-8	-
4	Ross-on-Wye	1020.5	-6	SE	1	f	32	97	3	5	-	-	10	10	800
5	Hartland Point	1017.3	-4	SSE	5	ido	43	97	6	6	2	-	4-6	10	800
	Bristol	1021.0	-2	SE	2	zo	35	85	6	5	7	-	4-6	10	5700
	Portland Bill	1019.7	+12	S	3	c	45	92	7	5	7	-	4-6	10	2500
	Plymouth	1018.7	-2	SSE	2	roro	45	97	5	6	2	-	9+	10	450
	The Lizard	1017.8	0	SSW	2	c	50	92	7	8	1	-	4-6	7-8	2500
	Scilly (St. Mary's)	1016.8	-2	SWS	3	iro	49	85	7	5	-	-	10	10	1500
	Guernsey	1020.2	-2	SE	2	c	44	85	7	-	3	-	0	9	-
6	Pembroke	1016.4	0	SSE	6	cq	45	97	7	9	-	-	9+	9+	800
7	Holyhead	1017.4	-8	SE	3	c	40	75	7	5	7	-	4-6	10	4000
	Chester (Sealand)	1020.3	-2	SEE	2	zo	26	85	5	-	3	6	0	7-8	-
8	Manchester	1020.5	-10	ESE	2	bF	26	97	1	-	-	-	0	0	-
10	Spurn Head	1021.1	+6	NWW	2	bcjf	35	75	4	2	8	-	2-3	2-3	4000
	Catterick	1021.2	+2	-	0	zo	31	75	6	-	-	6	0	4-6	-
	Tynemouth	1020.0	+2	SW	2	bcf	33	85	3	8	-	-	2-3	2-3	1500
11	St. Abbs Head	1019.1	-4	SW	4	bc	35	75	8	-	3	2	0	4-6	-
	Leuchars	1019.5	+2	-	0	c	28	85	6	-	-	8	0	7-8	-
12	Renfrew (Abbots I.)	1019.3	-8	-	0	cf	24	97	2	-	3	-	0	9+	-
	Eskdalemuir	1020.0	-6	-	0	c	26	85	8	-	-	6	0	9+	-
	Point of Ayre	1017.3	-8	SSE	6	c	40	75	6	5	-	7	9	10	1500
13A	Tiree	1012.9	-16	SEE	6	c	40	87	7	6	1	-	7-8	9+	1500
13B	Stornoway	1015.7	-8	S	2	c	37	75	8	5	5	-	4-6	7-8	4000
15	Dalwhinnie	1018.0	-2	SE	3	c	29	85	8	-	5	8	0	7-8	-
	Aberdeen	1019.2	+2	NWN	1	bf	25	85	3	-	3	-	0	1	-
	Wick	1017.4	+2	SSW	2	bc	36	85	8	5	4	9	1	4-6	2500
16	Lerwick	1016.0	0	W	3	c	35	92	8	8	7	-	7-8	9	800
17	Blacksod Point	1008.2	-26	SE	4	ir	41	97	7	6	-	-	10	10	800
18	Malin Head	1012.6	-18	S'E	1	c	38	75	7	5	2	-	4-6	9	4000
	Aldergrove	1015.1	-18	S'E	4	dodo	38	92	6	6	2	-	7-8	10	800
19	Birr Castle	1011.6	-20	S	2	ir	42	97	7	6	2	-	4-6	10	800
20	Valentia Obsy. †	1009.3	-30	SSE	6	iro	50	92	7	6	2	-	7-8	10	1500
	Roches Point	1013.1	-6	S	4	rr	45	97	6	6	2	-	7-8	10	800

OBSERVATIONS at 18h. G.M.T. 6th January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1022.9	+4	SSE	1	cf	31	85	3	-	-	6	0	10	-	3	*
Croydon	1022.8	+6	SE'S	3	bcf	32	92	3	5	4	5	Tr	2-3	5700	3	*
S. Farnborough	1022.6	0	SE	2	m	34	75	4	5	7	-	4-6	10	5700	2	*
Boscombe Down	1021.7	-4	SE	4	roro	34	85	6	5	-	-	10	10	1500	1	*
Calshot (Sthmtn.)	1022.1	0	E	3	rf	39	85	3	5	-	-	10	10	1500	1	2
Lympne	1023.9	+8	-	0	zo	31	85	5	-	-	-	0	0	-	3	§ 0
Manston	1023.8	+8	-	0	zo	30	92	5	-	-	-	0	0	-	3	*
Shoeburyness	1023.3	+6	-	0	bc	29	85	5	-	-	6	0	2-3	-	3	*
Felixstowe	1023.4	+10	WNW	1	zo	31	92	5	-	3	-	0	1	-	3	2
Gorleston	1022.6	+6	WNW	1	f	30	85	3	5	-	-	2-3	2-3	450	3	1
Mildenhall	1022.5	+14	S	1	m	23	92	4	-	4	8	0	4-6	-	8	*
Cranwell	1022.1	+6	S	2	m	26	97	4	-	2	4	0	4-6	-	8	*
Birmingham	1020.7	-4	SSE	2	m	34	85	4	5	-	-	10	10	1500	7	*
Upper Heyford	1022.3	+6	SSE	2	m	33	85	4	5	7	-	7-8	10	4000	4	*
Ross-on-Wye	1020.0	-4	SE	3	roro	35	85	5	-	2	-	10	10	1500	4	*
Hartland Point	1015.9	-8	SSE	4	roro	45	97	7	6	2	-	2-3	10	800	1	2
Bristol	1020.4	-4	SSE	2	rr	36	92	6	5	2	-	4-6	10	1500	1	*
Portland Bill	1019.9	+4	S	4	rr	43	92	7	5	-	-	10	10	1500	1	3
Plymouth	1017.9	-6	S	3	iro	49	97	6	6	2	-	10	10	1500	1	2
The Lizard	1016.9	-10	SSE	3	pr	48	97	6	5	-	-	10	10	1500	1	1
Scilly (St. Mary's)	1014.9	-14	SW	4	rr	51	97	5	5	-	-	10	10	800	1	2
Guernsey	1020.8	0	SE'S	3	o	45	75	6	5	-	-	10	10	2500	1	3
Pembroke	1015.0	-8	SSE	6	roro	47	97	5	8	-	-	9+	9+	800	1	3
Holyhead	1015.3	-10	SSE	4	roro	40	85	7	6	2	-	7-8	10	1500	1	2
Chester (Sealand)	1019.2	-8	SEE	3	sf	31	92	3	-	-	-	10	10	1150	7	*
Manchester	1020.0	0	SEE	2	m/f	34	75	4	-	2	-	0	10	-	8	*
Spurn Head	1021.5	+4	SW	2	m	34	97	4	-	8	-	0	1	-	3	1
Catterick	1020.7	+2	-	0	zo	25	92	5	-	3	-	0	9	-	8	*
Tynemouth	1019.7	-2	SSW	3	m/f	34	85	4	2	-	-	4-6	4-6	2500	3	2
St. Abbs Head	1017.3	-10	S	4	c	30	75	8	4	6	2	4-6	7-8	2500	3	2
Leuchars	1018.2	-2	-	0	zo	27	92	6	-	7	-	0	10	-	3	*
Renfrew (Abbots I.)	1016.7	-16	E'N	2	soso	31	92	3	5	-	-	10	10	1500	3	*
Eskdalemuir	1018.5	-4	-	0	o	29	85	7	5	-	-	10	10	1500	8	*
Point of Ayre	1015.6	-2	S	6	roro	39	85	7	5	2	-	7-8	10	1500	1	3
Tiree	1010.0	-14	SEE	6	rr	39	97	6	-	2	-	10	10	1500	1	5
Stornoway	1012.5	-12	SE	5	c	40	65	7	5	7	-	4-6	9+	2500	8	3
Dalwhinnie	1017.5	-12	S	3	c	29	92	7	5	-	-	10	10	2500	8	*
Aberdeen	1017.8	-6	SW	2	bc	33	85	5	-	3	-	2-3	2-3	-	4	1
Wick	1015.5	-10	S	3	c	35	75	7	5	7	8	4-6	9	1500	8	1
Lerwick	1016.5	+2	WNW	2	c/ps	35	92	8	8	7	-	4-6	7-8	800	7	*
Blacksod Point	1004.6	-20	S	4	ir	49	92	7	6	-	-	10	10	800	1	3
Malin Head	1007.1	-52	S	5	c/d	40	92	6	6	2	-	4-6	10	4000	1	2
Aldergrove	1011.6	-20	SSE	4	dodo	39	97	5	6	2	-	9	10	450	1	*
Birr Castle	1009.6	-16	S	2	ir	48	97	7	6	2	-	4-6	10	800	1	*
Valentia Obsy. †	1008.3	0	SW'S	4	dd	53	97	6	5	-	-	10	10	220	1	3
Roches Point	1010.7	-10	S'E	3	id	49	97	6	5	-	-	10	10	450	1	3

PAST 24 HOURS. — Weather.

Stations	7h.–13h. 6th (37)	13h.–18h. 6th (38)	18h. 6th to 1h. 7th (39)	1h.–7h. 7th (40)
London (Kew)	bcfx	bcfxcfx	cfxroc	crorrro
Croydon	bcmomfbf	bff bzf	frosoro	cidrrrox
S. Farnborough	bmcfbc	bcmfcm	crosoro	roRroo
Boscombe Down	b,cmoxcm	cmororomo	rrrsdd	rrdodf
Calshot (Sthmtn.)	bcfxcmo	cmo cir	crrrodm	cRrdmo
Lympne	bmozx	bzomox	bcxcm	corrmo
Manston	bff mx	bmbcmo	bmobccm	cmororor
Shoeburyness	mffbmo	bbcmox	bccmox	rsrsc
Felixstowe	bmo	bmox	bmoxmo	pirsorsrs
Gorleston	bbczfx	bcffx	bffcmox	czoiroq
Mildenhall	b bmo	bmx	bccmox	cmororoso
Cranwell	mx	b,cbcm	fcmcmo	cssrs
Birmingham	bf	bfmcso	osro	roRr
Upper Heyford	bbcmoz	czomom	mssroso	roroRR
Ross-on-Wye	cmom	do mro	romoroqro	rropo
Hartland Point	iro ido	idororoc	ororo	rorodff
Bristol	cxcmo	cdoro rr	Rrrc	crcrodo
Portland Bill	c	orr	orr	orf
Plymouth	proiroror	crororo iro	irorrm	rrcodd
The Lizard	rrc	crr	rridm	dfrdm
Scilly (St. Mary's)	coiro	orrddm	ddmidf	odfidom
Guernsey	bcc	coido	ororr	orR
Pembroke	croromoq	crrmq	omFFd	ffdrrmqc
Holyhead	c	rororrc	roroiroc	RRfrc
Chester (Sealand)	bccfxm	cmoxmsf	ossfrsrsm	orRrmo
Manchester	oFF bF	bFF cff	ssrsr	=RR
Spurn Head	bcm	bcfm	bcmo	ssrsq
Catterick	bxbczo	bczocmo	cmofsoso	fsosoiro
Tynemouth	bcmff	bcffm	bzomis	ororo
St. Abbs Head	bc	c	cmoss	srrmp
Leuchars	bxcxmo	cxmo	cxmmisdd	dodorRodd
Renfrew (Abbots I.)	FF isoff	oxff soso	oFsoros	Fmrosdo
Eskdalemuir	bbccx	bccox	oxossm	ossddm
Point of Ayre	cfc	croro	roroq	rr
Tiree	c	orrro	orr	ororr
Stornoway	c	c	cRSRS	crrR
Dalwhinnie	bc	bc	*	bc
Aberdeen	bmobf	bff z	croro	crrmo
Wick	bbc	bcc	crr	iromo
Lerwick	clso	cirsis	cirs	cirsir
Blacksod Point	ir	ir	iro	idrq
Malin Head	c	cidoc	circ	ciroc
Aldergrove	cmoddm	dodororom	ddororom	rrciro
Birr Castle	ir	cir	cir	cirid
Valentia Obsy. †	roro rriro	irrorodd	ddiroc	cido
Roches Point	fferr	dd rid	odd	odd

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp. precipitation within sight of station.
ks, storm of drifting snow.
k/s_o, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s_o/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o. overcast sky. p, passing showers.

q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
⊕, Solar halo. ⦶ lunar halo. Aurora.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus :—bc/r, fair weather after rain; —. has decreased; +. has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.

Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.

An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.

"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.

"9 +" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:— Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As: Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb.

COLUMN 29.—STATE OF GROUND.

0 . . Ground dry.
1 . . „ wet.
2 . . „ flooded.
3 . . „ frozen hard and dry.
4 . . „ partly covered with snow or hail.
5 . . „ covered with ice or glazed frost.
6 . . Ground covered with thawing snow.
7 . . „ covered with snow, less than 6 ins. deep but ground not frozen.
8 . . „ covered with snow, less than 6 ins., but ground frozen.
9 . . „ covered with snow greater than 6 ins. deep.

NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2*

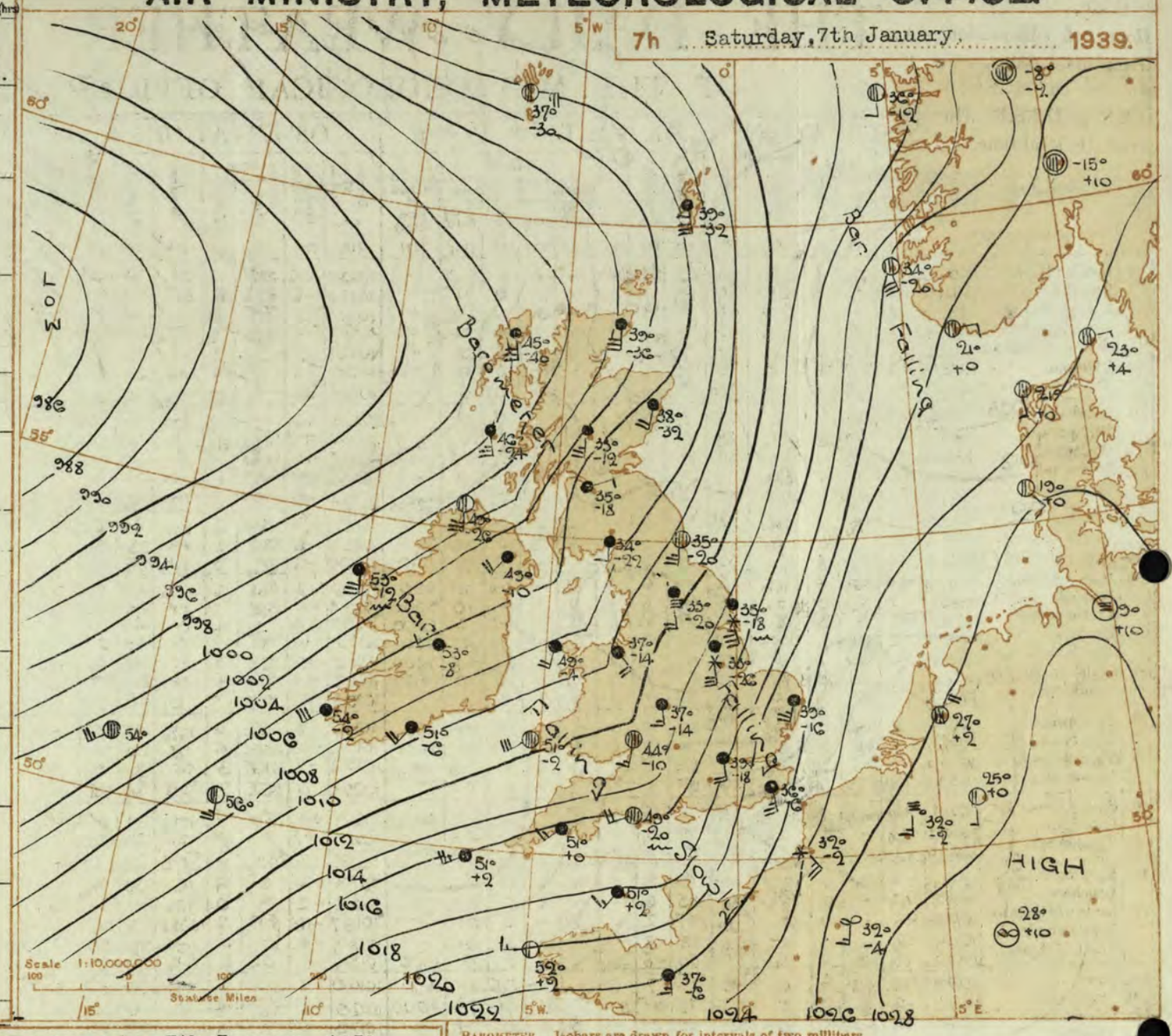
† Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 6th January 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F.) Min. 9h. 5th to 9h. 6th	Temperature. (°F.) Max. 9h.—17h. 6th	Rainfall. (mm.) Night. 17h. 5th to 9h. 6th	Rainfall. (mm.) Day. 9h.—17h. 6th	Sunshine (hrs) Sunrise to Sunset. 6th.
1	Tunbridge W.	bc	bcco	20	39	–	–	6·5
	Bournemouth	fmo	odr	25	41	–	1	0·0
	Ventnor ...	xcob	bco	33	44	–	–	1·3
	Southsea ...	c	bcc	27	40	–	–	0·4
	Bognor Regis	bc	bc	27	40	–	–	2·4
	Littlehampton	bc	bc	24	41	–	–	1·9
	Worthing ...	bcxf	bx	25	41	–	–	4·1
	Brighton ...	bc	bc	27	40	–	–	6·0
	Eastbourne† ...	fb	b	27	41	–	–	6·5
	Hastings† ...	b	b	29	42	–	–	6·5
	Folkestone ...	b	bbcc	29	40	–	–	6·0
	Dover ...	bcb	bbc	29	41	Trace	–	6·9
	Deal	xb	b	30	37	–	–	5·9
	Ramsgate ...	bc	bc	29	39	–	–	6·5
	Margate ...	bc	bc	31	38	–	–	5·6
2	Southend ...	bm	bm	27	39	Trace	–	5·5
	Clacton-on-Sea	bxm	bm	25	36	–	–	5·8
	Dovercourt ...	xb	bcfx	28	36	–	–	0·0
	Lowestoft ...	b	bf	25	34	–	–	4·5
	Skegness ...	xcb	bbcm	24	37	–	–	5·4
	Mablethorpe...	bxb	bmo	25	38	–	–	3·2
	Cleethorpes ...	bcb	bm	27	36	–	–	4·7
3	Leamington S.	bcz	bcco	19	34	–	–	0·4
4	Cheltenham†	co	ors.	23	37	–	Trace	0·0
5	Bath	mc	cr	25	36	–	–	0·0
	Weymouth ...	c	cr.	27	45	–	Trace	0·0
	Jersey ...	pcbc	bcc	37	44	Trace	–	3·6
	Torquay ...	ocfo	oid	31	46	–	0·4	0·0
	Falmouth	orypc	ogrrp	35	51	3	5	0·7
	Penzance ...	bcmc	cdrm	37	51	2	3	0·4
	St. Ives ...							
	Bude... ...	od	or	42	46	1	2	0·0
	Ilfracombe ...	cbccc	odro	33	44	–	0·2	0·0
6	Aberystwyth	co	or.r	29	40	–	1	0·0
7	Llandudno ...	c	cod.	28	39	–	Trace	0·0
	Colwyn Bay...	ococ	obccr	29	37	–	0·3	0·0
	Rhyl	xc	cr	23	38	–	0·2	0·0
8	Wallasey ...	fo	o	24	34	–	–	0·0
	Southport ...	cxmbc	cmcgm	20	35	–	–	0·3
	Blackpool ...	cfbf	cfof	18	34	–	–	0·0
	Morecambe ...	xc	c	24	38	Trace	0·3	0·0
9	Ilkley... ...	b	bf	20	30	–	–	1·6
	Harrogate ...	b	bbcc	26	35	–	–	4·3
10	Berwick-on-T.	b	bccm.	20	27	–	–	4·1
11	Dunbar ...	bcm.x	cmo	21	35	–	–	3·2
12	Troon... ...	xcmc	cpc	22	37	–	–	0·0
	Douglas ...	bcx	cfr	30	40	–	1	0·0

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 7th January, 1939.

Districts.	Forecasts
1 S.E. England	Wind south to southwest moderate; cloudy; mild.
2 E. England ...	Wind southerly strong, a gale on coasts at first. Rain at first. Fog in many places to-day. Becoming mild.
3 E. Midlands ...	
4 W. Midlands ...	Wind south to southwest fresh or strong; cloudy; occasional drizzle. Fog locally on coasts and hills; mild.
5 S.W. England	
6 South Wales ...	
7 North Wales ...	
8 N.W. England	
9 N. Midlands ...	As 2 – 3.
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	As 4 – 8.
13 A. W. Scotld. B.N.W.Scotland.	
14 Mid Scotland	Wind southerly strong to gale on coasts. Sleet at first changing to rain. Fog in many places. Temperature rising.
15 N. E. Scotland	
16 Orkney and Shetland	
17 N. W. Ireland	As 4 – 8.
18 N. E. Ireland	
19 S. E. Ireland	
20 S. W. Ireland	

H.M. Stationery Office Press, Kingsway, W.C.2

RAW

GENERAL INFERENCE.

A deep depression over the Atlantic remains almost stationary and secondaries will move north-eastwards across the British Isles. Mild cloudy weather will spread over the whole country. The change from cold to mild conditions will be accompanied by sleet changing to rain and then by a considerable amount of fog persisting until the snow covering has melted.

FURTHER OUTLOOK.

Southerly winds and mild unsettled weather.

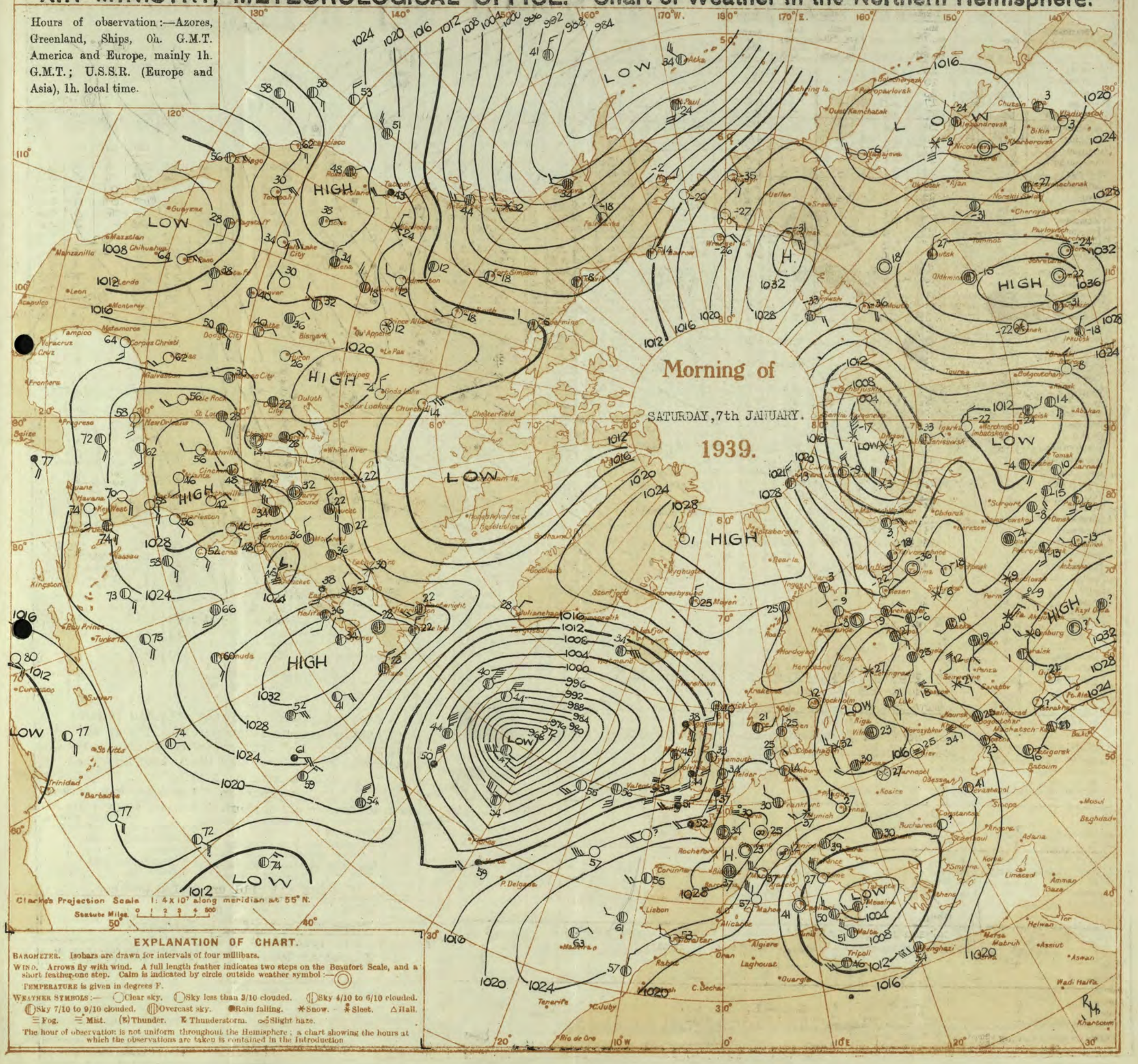
Times of Issue of Gale Warnings.

South Cone hoisted at 0335 on 7/1/39 in districts 15 and 16, and at 0810 in districts 2,10,11 and part of 1.

Forecasts issued at 1030 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S.
Director.

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday, 7th January, 1939.

No. 28170

OBSERVATIONS at 1 hr. G.M.T. 7th January

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1022.4	-6	S	3	ir°	37	85	7	-	7	-	0	10	-
	S. Farnborough	228	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1023.2	-8	SE	3	c	38	75	6	-	7	-	0	9+	-
	Manston	154	1023.8	-8	SSE	3	c	37	85	6	-	3	-	0	10	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1023.1	-10	SSW	2	c	32	85	5	5	-	-	9+	9+	2500
	Mildenhall	19	1021.8	-10	SSE	4	z°	35	75	6	5	-	-	9+	9+	4000
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1013.4	-6	SW	5	r°r°	50	97	6	-	2	-	10	10	800
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32	1018.6	-10	SSE	4	rr	43	92	7	5	-	-	10	10	1500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard	240	1016.4	-8	W'S	3	id°	51	97	2	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	1016.0	+4	W'S	4	df	51	97	3	-	-	-	10	10	<150
	Guernsey	175	1019.0	-18	SE'S	5	rr	43	97	5	5	-	-	10	10	1500
6	Pembroke	142	1012.8	-10	SW'W	4	df	50	97	2	-	-	-	10	10	<150
7	Holyhead	26	1009.6	-28	S	6	r°r°	44	92	6	6	2	-	4-6	10	450
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1019.5	-14	S'E	4	q	34	85	6	5	-	-	10	10	2500
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	108	1015.6	-28	S	4	o/s	33	85	5	-	2	-	10	10	1500
11	St Abbs Head	280	1011.5	-24	S	7	o/s	33	85	5	5	-	-	10	10	1500
	Leuchars	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayr	30	1010.1	-32	S	6	r°r°	40	97	6	-	2	-	10	10	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1005.9	-30	ESE	5	d°d°	38	92	6	5	2	-	7-8	10	1500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1011.1	-16	S	6	rr	37	97	7	5	2	-	7-8	10	800
16	Lerwick	156	1014.0	-18	SSW	4	c	40	75	8	8	2	-	4-6	10	800
17	Blacksod Point	18	1002.8	-16	S	5	ir	53	92	7	6	-	-	10	10	450
18	Malin Head	84	1004.8	-8	S	4	c/r	45	92	7	8	2	-	7-8	9	2500
	Aldergrove	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obey. †	30	1007.4	-6	S	6	dm	53	97	4	5	-	-	10	10	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 7th January — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Temp. Max. Day 7h–18h °F. (31)	Temp. Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 6th Hrs. (36)
London (Kew)	1018.0	-14	SE	3	r°r°	39	92	6	6	2	-	7-8	10	1500	1	*	36	31	25	Tr	8	3.3
Croydon	1018.2	-18	SSE	4	r°r°	39	97	7	6	2	-	9	10	800	1	*	41	31	29	Tr	6	5.8
S. Farnborough	1017.3	-12	SSE	3	ir°	40	92	6	6	-	-	10	10	800	1	*	41	33	31	0.1	6	2.0
Boscombe Down	1015.9	-14	SSE	3	df	40	97	3	-	-	-	10	10	<150	1	*	36	33	32	0.4	11	0.0
Calshot (Sthmtn.)	1017.6	-14	SE'S	3	id°	42	97	6	5	-	-	10	10	800	1	§3	40	38	36	Tr	8	0.4
Lympne	1021.2	-6	SSE	5	rr	36	97	6	6	2	-	9+	10	450	1	§4	37	27	23	-	3	4.8
Manston	1021.4	-10	S'E	5	r°r°	35	92	6	6	2	-	7-8	10	800	1	*	37	29	20	-	1	6.3
Shoeburyness	1020.5	-14	S	5	rs	34	97	6	6	-	-	10	10	1500	1	*	39	27	21	-	5	5.6
Felixstowe	1021.4	-20	S'E	6	rs	36	92	6	5	-	-	10	10	800	1	4	36	28	20	-	1	6.1
Gorleston	1020.7	-16	SSW	5	ir°	39	75	7	6	-	-	10	10	2500	1	3	35	27	25	-	Tr	4.5
Mildenhall	1017.4	-32	SE'S	4	rs	34	92	7	5	-	-	10	10	800	6	*	35	22	20	0.3	3	4.6
Cranwell	1015.3	-26	SSE	6	rs	33	97	5	5	-	-	10	10	450	8	*	34	25	17	-	7	6.0
Birmingham	1013.3	-14	SSE	3	rr	37	97	4	6	-	-	10	10	800	6	*	36	31	31	0.2	18	0.8
Upper Heyford	1015.9	-14	SSE	3	r°r°	37	97	5	5	-	-	10	10	450	1	*	35	31	30	-	12	*
Ross-on-Wye	1013.4	-10	SSW	3	o	44	97	6	5	-	-	10	10	800	1	*	35	35	33	1	12	0.0
Hartland Point	1012.8	-8	WSW	5	F	49	97	1	-	-	-	10	10	<150	1	4	45	44	43	1	6	0.0
Bristol	1014.5	-18	S	2	d°d°	47	97	6	6	2	-	7-8	10	800	1	*	36	35	34	2	5	0.0
Portland Bill	1015.4	-20	WSW	4	o	49	92	7	5	-	-	10	10	1500	1	4	48	42	*	0.1	9	*
Plymouth	1016.1	0	SW'W	3	dd	51	97	5	-	2	-	10	10	<150	1	2	49	47	46	1	14	0.0
The Lizard	1016.7	+10	SW'W	4	id°	51	97	2	5	-	-	10	10	1500	1	1	52	47	*	7	7	1.0
Scilly (St. Mary's)	1016.1	+2	WSW	5	id°	51	97	6	5	-	-	10	10	800	1	3	51	51	*	3	2	0.0
Guernsey	1018.1	+2	SW	3	ir°	51	97	4	5	-	-	10	10	1500	1	3	46	43	41	Tr	18	2.3
Pembroke	1011.6	-2	SW'W	6	oq	51	97	6	5	-	-	10	10	1500	1	3	47	45	*	3	11	0.0
Holyhead	1008.0	-4	SSW	4	rr	49	97	5	5	2	-	7-8	10	450	1	2	41	39	37	4	9	0.0
Chester (Sealand)	1010.3	-14	SE	4	r°r°	37	92	5	-	2	-	10	10	2500	6	*	31	31	30	Tr	11	0.0
Manchester	1011.5	-22	SE	3	r°r°	37	97	6	-	2	-	10	10	1500	6	*	34	33	32	-	19	0.0
Spurn Head	1014.4	-18	SSE	7	rs	35	97	6	5	-	-	10	10	800	2	4	36	32	*	-	4	5.8
Catterick	1011.7	-20	S'E	4	rf	33	97	3	-	-	-	10	10	<150	6	*	34	25	23	-	5	5.1
Tynemouth	1010.1	-20	S	5	o/r	35	92	5	-	2	-	10	10	1500	1	2	35	32	29	-	1	2.4
St Abbs Head	1007.7	-24	S	5	rr	33	92	4	3	-	-	10	10	800	1	4	35	28	*	-	4	*
Leuchars	1006.6	-22	-	0	d°d°	35	97	6	6	-	-	10	10	800	1	*	29	26	25	-	3	2.7
Renfrew (Abbots I.)	1006.4	-18	ENE	1	d°d°	35	97	4	5	-	-	10	10	800	1	*	31	31	30	-	5	0.0
Eskdalemuir	1007.6	-22	S	2	dd	34	97	4	-	2	-	10	10	220	8	*	30	29	27	-	5	2.6
Point of Ayr	1006.6	-12	S	5	rr	42	97	6	-	2	-	10	10	1500	1	4	40	38	*	0.2	12	0.0
Tiree	998.9	-24	SSE	5	dr	46	97	6	-	2	-	10	10	800	1	*	40	39	38	2	8	0.0
Stornoway	998.6	-40	SSE	6	RR	45	97	6	5	2	-	9	10	1500	2	3	40	35	*	-	15	0.0
Dalwhinnie	1004.2	-12	S	5	id°	33	97	7	5	-	-	10	10	2500	8	*	30	27	14	-	Tr	0.1
Aberdeen	1005.8	-32	SSW	4	rr	38	97	6	6	2	-	7-8	10	800	1	1	33	32	29	-	10	2.0
Wick	1001.5	-36	S	6	ir°	39	97	6	5	2	-	9	10	800	4	3	37	35	*	-	2	*
Lerwick	1007.3	-32	SSE	8	ir	39	85	7	8	2	-	7-8	10	800	4	*	37	33	*	3	1	0.0
Blacksod Point	1001.9	-12	S	6	dr	53	97	7	6	-	-	10	10	<150	1	4	54	35	*	2	3	*
Malin Head	1000.8	-26	S	3	c	49	92	8	5	-	-	7-8	7-8	5700	1	2	40	39	*	0.6	2	0.0
Aldergrove	1004.1	-10	SW	4	ir°	49	97	6	6	2	-	10	10	450	1	*	39	39	38	3	9	0.0
Birr Castle	1006.2	-8	WSW	2	id	53	97	7	5	-	-	10	10	1500	1	*	43	42	41	3	2	0.0
Valentia Obey. †	1007.7	-2	SW'S	6	id°	54	97	6	5	-	-	10	10	220	1	3	54	53	50	7	2	0.0
Roches Point	1010.0	-6	SW	4	dd	52	97	5	5	-	-	10	10	220	1	3	50	49	*	4	1	*

LONDON OBSERVATIONS

Day 7h—18h, Kew & Croydon. 9h—18h, Kensington. 9h—21h, other stations except for rainfall which is 9h—18h.

Station	Height above M.S.L. in feet	Weather Morning	Weather Afternoon	Weather Night	Temp. Day Max. °F.	Temp. Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h. (To-day)
Kew	18	bcfx	bcfxcfx	cfxr°c	36	31	25	Tr	8	3.3	.	.	6
Croydon	217	bcm°bf	bffbzf	fr°s°r°x	41	31	29	Tr	6	5.8	.	.	5
Greenwich (Royal Observatory)	149	FF	FF	cmdrr	32	32	21	-	9	0.0	86	93	6
City (Bunhill Row)	—	.	.	.	.	.	.	.		0.0	.	.	.
Westminster (St James' Park)	27	.	.	.	40	28	28		9	*	87	91	.
Regent's Pk. (Botanic Gardens)‡	168	.	.	.	40	27	23	-	11	0.0	100	91	.
Camden Square	110	bcd°d°	o	.	34	29	24	-	11	.	.	96	.
Kensington	80	bcf	cf	.	37	33	27	-	9	0.0	At 18h. 91	97	.
Hampstead Observatory	450	bcx	of	ofr	37	23	23	-	11	2.1	.	99	.

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 7th.

	Max.	Time.	Min.	Time.
South Kensington.	2.0	18-20h 6th	<0.3	5-7h. 7th.
Kew Observatory.	1.3	19-20h 6th	<0.1	1-6h 7th.

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 6th January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 7th January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris	1024.9	—	0	m	32	1026.1	SSW	3	z°	32	41	30	-	-
Brussels	1023.5	W	1	c	32	1026.3	S	3	m	32	36	28	0.2	*
Berlin						1025.3	NW	1	z°	25		23		Tr
Zurich	1023.9	W	1	c	32	1029.2	WNW	1	z°	27	39	27	-	-
Rome	1005.8	N	2	bc	45	1009.9	NNW	6	bc	39	*	*	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
THE BEAUFORT SCALE OF WIND is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	<1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	> 75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

Objects not visible at

0 Dense fog 55 yards.
1 Thick fog 220 ,,
2 Fog 550 ,,
3 Moderate fog 1,100 ,,
4 Mist or haze 1¼ miles.
5 Poor visibility 2½ ,,
6 Moderate ,, 6¼ ,,
7 Good ,, 12½ ,,
8 Very good ,, 31 ,,
9 Excellent ,, beyond 31m.

COLUMN 30.—Code for State of Sea.

0 Calm. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 Precipitous.
4 Rough. 9 Confused.

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY, LONDON, W.C.2.

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 8th January, 1939

No. 28171

OBSERVATIONS at 13h. G.M.T. 7th January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Med. (10)	High (11)	Amount Low 0–10 (12)	Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1015·4	-12	SSW	3	ir_0	47	97	4	5	-	-	10	10	1500
	Croydon ...	1016·1	-14	S	4	of-	45	97	3	5	-	-	10	10	220
	S. Farnborough	1015·6	-14	SW'S	4	o/r	50	97	6	5	-	-	10	10	450
	Boscombe Down	1016·0	-6	SW'W	4	z_0	52	92	7	5	-	-	10	10	800
	Calshot (Sthmtn.)	1017·2	-4	SW'W	4	z_0	50	97	6	5	-	-	10	10	220
	Lympne ...	1018·9	-18	SW	4	df	40	97	1	-	-	-	10	10	<150
	Manston ...	1017·2	-26	S'W	4	rr	38	97	6	6	2	-	9+	10	450
2	Shoeburyness ...	1015·9	-24	S	4	c/r	41	97	6	6	2	-	9+	10	450
	Felixstowe ...	1016·6	-34	S'E	6	r_0r_0	38	97	6	-	2	-	10	10	450
	Gorleston ...	1015·8	-36	SSW	7	rr	37	97	6	6	-	-	10	10	1500
	Mildenhall ...	1014·0	-22	S'E	4	o/r	37	97	6	5	-	-	10	10	1500
	Cranwell ...	1011·9	-22	S'W	4	m	36	97	4	5	-	-	10	10	450
3	Birmingham ...	1012·0	-4	SW	3	of	45	97	3	5	-	-	10	10	450
	Upper Heyford	1014·5	-10	SW	3	dF	44	97	1	-	-	-	10	10	<150
4	Ross-on-Wye	1013·2	-6	WSW	3	c	53	85	7	5	3	-	7-8	9+	2500
5	Hartland Point	1014·2	+2	WSW	6	df	49	97	2	-	-	-	10	10	<150
	Bristol ...	1015·3	-4	SW'W	4	dr	52	92	5	6	2	-	9	10	450
	Portland Bill ...	1016·7	+4	WSW	4	o	50	92	7	5	-	-	10	10	1500
	Plymouth ...	1017·8	-2	SW'W	4	id_0	51	97	5	6	2	-	9+	10	220
	The Lizard ...	1018·2	0	SW	5	c	51	97	7	8	2	-	9	10	1500
	Scilly (St. Mary's)	1017·0	-4	SW	5	c	52	92	6	5	-	-	9+	9+	800
	Guernsey ...	1019·9	0	SW'W	3	o/r	51	97	6	5	-	-	10	10	1500
6	Pembroke ...	1012·8	+2	SW'W	7	d_0d	51	97	5	5	-	-	10	10	800
7	Holyhead ...	1008·2	-4	SW	5	o/f	50	97	5	5	-	-	10	10	220
	Chester (Sealand)	1010·2	-2	SW'S	4	c	52	85	8	5	2	-	9	9+	1500
8	Manchester ...	1010·0	-10	S'W	2	cf-	40	97	3	5	2	-	7-8	10	450
10	Spurn Head ...	1010·7	-20	S	5	ir_0	36	97	6	5	-	-	10	10	1500
	Catterick ...	1008·1	-22	SSE	3	f	34	97	3	-	-	-	10	10	<150
	Tynemouth ...	1006·1	-18	SSW	4	m	37	92	4	5	-	-	9	9	1500
11	St. Abbs Head ...	1001·1	-36	SW	6	cq	41	92	8	3	2	-	7-8	10	1500
	Leuchars ...	1002·5	-18	SW	1	z_0	37	97	5	6	-	-	10	10	800
12	Renfrew (Abbots I.)	1002·7	-18	NE	1	df	36	97	2	5	-	-	10	10	450
	Eskdalemuir ...	1004·4	-18	SW'S	4	dd	39	97	5	-	2	-	10	10	220
	Point of Ayre ...	1005·2	-8	W'S	5	c	54	92	7	8	1	-	4-6	9+	1500
13A	Tiree ...	997·7	-6	SSW	5	id_0	48	97	6	5	-	-	10	10	1500
13B	Stornoway ...	996·0	0	WSW	4	c/pr	48	92	7	5	2	-	7-8	10	1500
15	Dalwhinnie ...	1001·7	-4	S	4	c	37	85	6	4	2	-	7-8	9+	1500
	Aberdeen ...	1000·1	-14	SSW	5	c	39	97	6	6	7	-	2-3	10	800
	Wick ...	996·5	-18	SSW	5	c	42	97	7	5	2	-	7-8	10	1500
16	Lerwick ...	996·2	-60	SSE	8	rr	42	97	6	6	2	-	4-6	10	800
17	Blacksod Point	999·2	-30	S	5	RR	51	97	6	6	-	-	10	10	<150
18	Malin Head ...	1000·9	-4	SW	3	r_0r_0	50	85	6	5	-	-	9+	9+	4000
	Aldergrove ...	1002·8	-18	SW'S	3	id_0	52	97	6	6	2	-	9+	10	450
19	Birr Castle ...	1005·4	-16	SSW	4	c/d	55	92	7	6	2	-	4-6	10	800
20	Valentia Obsy. †	1007·0	-10	SSW	7	c	54	92	6	5	-	-	10	10	800
	Roches Point	1010·4	-6	SW	4	dd	52	97	5	5	-	-	10	10	220

OBSERVATIONS at 18h. G.M.T. 7th January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Med. (24)	High (25)	Amount Low 0–10 (26)	Total 0–10 (27)	Height of Base (feet) (28)
London (Kew)	1015·7	+2	SW	4	ir_0	52	92	6	5	-	-	7-8	7-8	1500
Croydon	1015·9	+2	SW'W	5	id_0	53	92	6	6	2	-	9+	10	800
S. Farnborough	1016·0	+4	SW	4	d_0d_0	51	92	6	5	-	-	10	10	1500
Boscombe Down	1016·8	+6	WSW	4	c	51	85	7	5	-	-	10	10	1500
Calshot (Sthmtn.)	1017·7	+6	SW	3	z_0	49	85	6	5	-	-	10	10	1500
Lympne	1017·5	-4	SW	4	f	47	97	3	-	-	-	10	10	<150
Manston	1016·5	-2	S'W	3	F+	46	97	1	-	-	-	10	10	<150
Shoeburyness	1015·5	-4	S	3	z_0	49	97	6	5	-	-	10	10	800
Felixstowe	1015·1	-4	SSW	4	o/d	42	97	5	5	-	-	10	10	450
Gorleston	1012·8	-18	SW'S	4	o	44	97	5	5	-	-	10	10	1500
Mildenhall	1012·3	-6	SW	4	bc	47	97	7	5	-	-	2-3	2-3	1500
Cranwell	1010·0	-12	SW	5	z_0	43	97	6	5	-	-	10	10	1500
Birmingham	1011·2	-2	WSW	5	id_0	51	92	8	6	-	-	9	9	800
Upper Heyford	1014·7	+6	SW'W	5	c	49	92	7	5	-	-	10	10	800
Ross-on-Wye	1013·9	0	SW	4	oq	52	85	7	5	-	-	10	10	1500
Hartland Point	1014·5	-2	SW	8	c	51	85	7	5	2	-	7-8	10	1500
Bristol	1016·0	-2	WSW	3	o/d	51	85	7	5	-	-	10	10	800
Portland Bill	1017·7	+6	W	3	c	50	92	7	5	-	-	7-8	7-8	2500
Plymouth	1018·1	0	SW	5	z_0	52	85	6	6	2	-	9	9+	800
The Lizard	1018·5	0	SW'S	6	c	51	97	7	8	2	-	9	10	1500
Scilly (St. Mary's)	1016·8	-2	SW	6	c	52	92	6	5	-	-	10	10	1500
Guernsey	1020·6	0	SW'W	5	o	52	92	6	5	-	-	10	10	1500
Pembroke	1012·4	0	SW	7	cq	51	97	6	5	-	-	10	10	1500
Holyhead	1007·7	+2	SW'S	5	c	51	85	6	5	2	-	7-8	10	800
Chester (Sealand)	1009·1	-4	SSW	4	c	54	85	7	5	-	-	9+	9+	1500
Manchester	1008·7	-2	SW	4	c	48	92	7	5	7	-	4-6	10	1500
Spurn Head	1008·6	-8	SW	3	o	42	97	6	5	-	-	10	10	1500
Catterick	1005·4	-14	S'W	3	ir_0	44	97	6	6	-	-	10	10	1500
Tynemouth	1002·8	-16	S	4	c	43	97	5	5	-	-	7-8	7-8	1500
St. Abbs Head	998·9	-16	SW	4	c/r	43	97	8	3	2	-	7-8	10	1500
Leuchars	998·6	-22	~	0	id_2	38	97	4	-	2	-	10	10	800
Renfrew (Abbots I.)	998·4	-30	NNE	1	rF	40	97	0	-	-	-	10	10	<150
Eskdalemuir	1001·4	-12	S'W	4	rr	41	97	5	-	2	-	10	10	220
Point of Ayre	1002·5	-14	WSW	7	c/r	55	85	7	8	1	-	4-6	10	1500
Tiree	995·1	-20	S	3	RR	46	97	6	-	2	-	10	10	1500
Stornoway	994·9	-10	SSW	3	pr	46	92	6	5	2	-	7-8	10	1500
Dalwhinnie	*	-16	SE	3	RR	37	97	6	6	-	-	10	10	1500
Aberdeen	997·6	-18	SSW	1	ir	40	92	4	6	2	-	10	10	800
Wick	994·3	-6	SSW	4	c	44	92	7	5	2	-	7-8	10	1500
Lerwick	990·7	-10	SW	6	c/r	45	97	6	6	2	-	7-8	10	800
Blacksod Point	1000·3	-20	S	4	c	53	92	7	9	-	-	9	9	800
Malin Head	998·0	-36	SW	4	c	51	92	6	8	-	-	9	9	2500
Aldergrove	1000·4	-4	WSW	5	c/r	51	92	6	5	2	-	4-6	10	800
Birr Castle	1004·9	+4	SSW	4	id	54	97	7	6	2	-	4-6	10	800
Valentia Obsy. †	1007·5	+4	SW'S	6	ir_0	54	97	5	6	-	-	10	10	450
Roches Point	1009·6	-2	SW'W	6	dd	52	97	6	5	-	-	10	10	220

PAST 24 HOURS.

Stations	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.–13h. 7th (37)	13h.–18h. 7th (38)	18h. 7th to 1h. 8th (39)	1h.–7h. 8th (40)
London (Kew)	1	*	cm_0ir_0m	cir_0m_0	cir_0cf	c
Croydon	1	*	$cr_0r_0d_0f$	$ofmir_0id_0$	cd_0m_0c	c
S. Farnborough	1	*	$d_0fr_0m_0o$	$m_0ir_0cd_0$	cm_0d_0c	cr_0m_0
Boscombe Down	1	*	dfcmcm	cm_0c	c	c
Calshot (Sthmtn.)	1	2	odfom	om_0	om_0id_0	$od_0d_0m_0$
Lympne	1	§ 4	$prshd_0f$	Fd_0rF	$focm_0c$	c
Manston	1	*	cmr_0srr	crrff	$oFcm_0$	c
Shoeburyness	1	*	$rsrsr_0c$	$d_0d_0m_0o$	om_0id_0c	c
Felixstowe	1	4	orsrsrr	$or_0r_0id_0f$	om_0c	c_0ir_0c
Gorleston	1	2	oirsrrq	$orromz_0$	oz_0cq	cq
Mildenhall	4	*	crr_0cd_0cm	ir_0om_0m	bc_0c	cir_0c
Cranwell	7	*	$orsr_0m$	$omfcm_0$	cm_0	$cirm_0bc$
Birmingham	1	*	oir_0f	fc	mdc	c
Upper Heyford	1	*	$r_0r_0mfd_0$	oFd_0c	cbccd	c
Ross-on-Wye	1	*	d_0oc	co	$oqid_0$	cq
Hartland Point	1	4	ffd	om_0c gale	oir_0 gale	$ocid_0$ gale
Bristol	1	*	ddcdr	$drcddd_0$	cd_0r_0q	cr_0c
Portland Bill	1	3	o	oc	oc	co
Plymouth	1	3	$oddr_0m$	$cidir_0c$	cm_0ir_0c	cm_0
The Lizard	1	3	omddc	c	c	c
Scilly (St. Mary's)	1	3	oid_0mc	c	c	c
Guernsey	1	4	oir_0r_0	oid_0	ocbc	bc
Pembroke	1	4	$orrd_0dmq$	om_0r_0qc	cir_0mq	cid_0q
Holyhead	1	3	rrdfo	om_0c	cm_0o	om_0c
Chester (Sealand)	1	*	$cr_0r_0rm_0c$	c	c	cir_0
Manchester	6	*	r_0r_0Kff	$cffmbcm_0c$	c	cpr_0q
Spurn Head	1	3	grsrr	oddm	cz_0w	cpr_0
Catterick	6	*	fmr_0r_0f	Fdm_0ir_0	om_0ir_0c	cpr_0
Tynemouth	1	2	oir_0cm	cm	bc	bcco
St. Abbs Head	1	4	cq	ir_0c	bcq	bccq
Leuchars	1	*	d_0dir_0idm	or_0r_0dm	mid_0ir_0m	m_0ir_0c
Renfrew (Abbots I.)	2	*	$FFrr_0r_0$	offrr	$fremr_0r_0$	$cm_0r_0r_0$
Eskdalemuir	6	*	$oddd_0$	oddrr	$orrir_0$	oir_0rr
Point of Ayre	1	3	rrc	rrcrr	c	rr
Tiree	1	3	$rdom_0$	oidrr	orrc	circ
Stornoway	1	2	cRR	crrpr	crr	cpr_0
Dalwhinnie	6	*	cir	cRr	*	cRrc
Aberdeen	1	2	crrmc	cmcmr	crmc	cz_0c
Wick	1	2	irm_0c	c	cr_0r_0	r_0r_0c
Lerwick	1	*	cirrr gale	$crrr_0r_0$	cm_0	c
Blacksod Point	1	4	Rr	r	irq	irq
Malin Head	1	2	c	cRrc	cbcc	cprc
Aldergrove	1	*	$ir_0m_0id_0$	$idm_0r_0ir_0$	cm_0bbc	$cr_0r_0ir_0$
Birr Castle	1	*	cid	cid	cid	cidir
Valentia Obsy. †	1	4	ddd_0d_0c	id_0ir_0	$ir_0ddrrdd$	ddDD
Roches Point	1	4	odd	odd	oid	oid_0

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s_0, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s_0/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_0, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
⊕, Solar halo. ⊕ lunar halo. Aurora.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.

Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.

An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.

"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.

"9 +" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,-Ci: Cirrocumulus,-Cc: Cirrostratus,-Cs: Altocumulus,-Ac: Altostratus,-As
Stratocumulus,-Sc: Stratus,-St: Nimbostratus,-Ns: Cumulus,-Cu: Cumulonimbus,-Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. „ wet.
2 .. „ flooded.
3 .. „ frozen hard and dry.
4 .. „ partly covered with snow or hail.
5 .. „ covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. „ covered with snow, less than 6 ins., deep but ground not frozen.
8 .. „ covered with snow, less than 6 ins., but ground frozen
9 .. „ covered with snow greater than 6 ins. deep.

NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2*

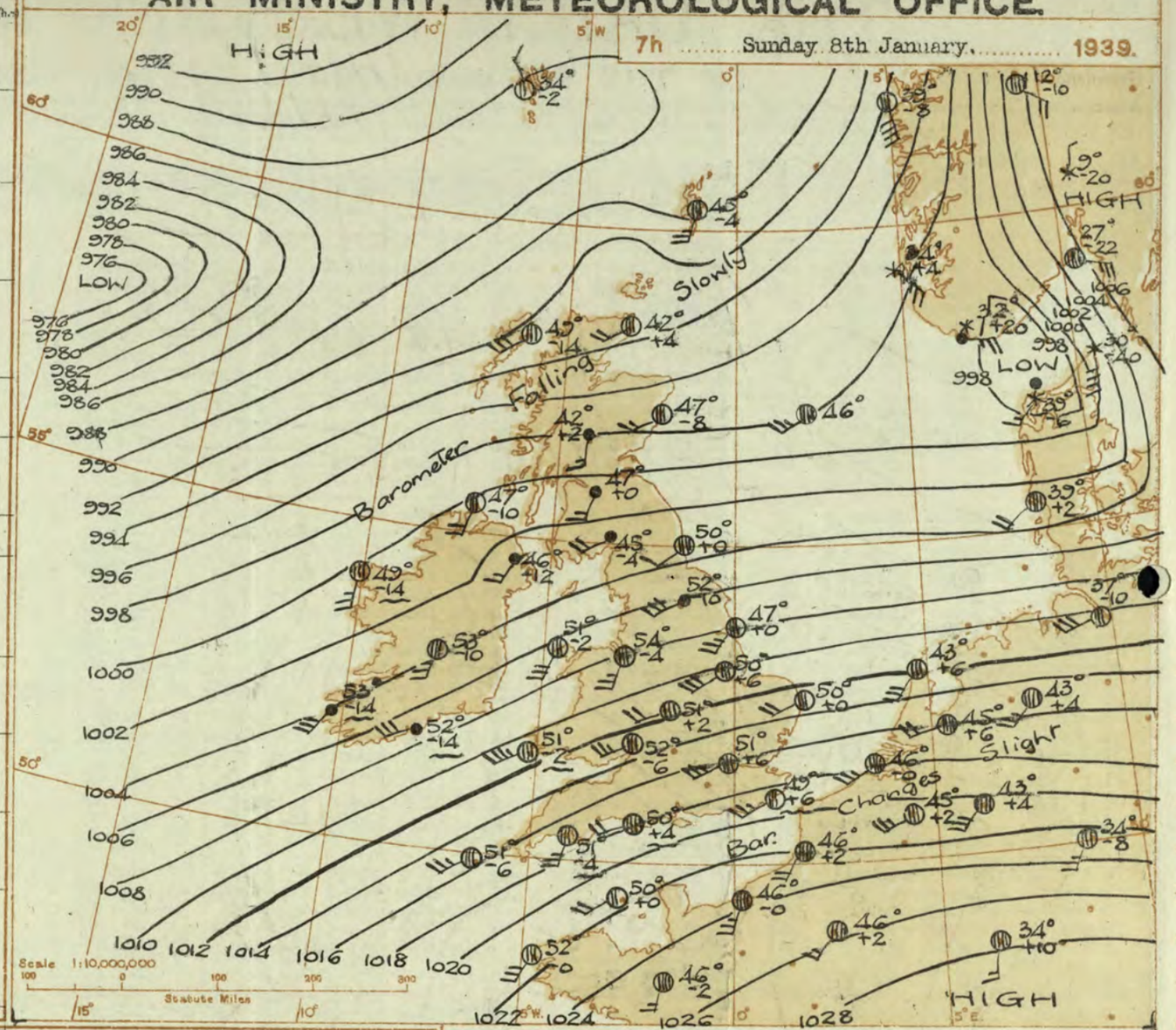
§ Sea disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 7th January, 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F.) Min. 9h. 6th to 9h. 7th	Temperature. (°F.) Max. 9h.—17h. 7th	Rainfall. (mm.) Night. 17h. 6th to 9h. 7th	Rainfall. (mm.) Day. 9h.—17h. 7th	Sunshine (h.) Sunrise to Sunset. 7th
1	Tunbridge W.	odom	odo	27	49	7	1	0·0
	Bournemouth	o	o	29	52	14	–	0·0
	Ventnor ...	orm	roc	36	50	12	0·3	0·0
	Southsea ...	ofo	o	30	51	9	–	0·0
	Bognor Regis	rroir	o	29	49	8	1	0·0
	Littlehampton	ormo	o	27	48	9	1	0·0
	Worthing ...	or	o	27	48	9	2	0·0
	Brighton ...	rrm	ro	28	48	9	3	0·0
	Eastbourne† ...	dd	ddo	39	50	8	6	0·0
	Hastings† ...	ord	dfo	38	47	7	3	0·0
	Folkestone ...	mprp	orro	29	47	8	9	0·0
	Dover ...	orr	orr	30	47	6	8	0·0
	Deal	srrr	rr	28	47	6	2	0·0
	Ramsgate ...	r	ro	35	46	6	4	0·0
	Margate ...	crs	cr	32	47	7	5	0·0
2	Southend ...	oir	oro	29	45	11	2	0·0
	Clacton-on-Sea	osrr	orom	26	41	4	10	0·0
	Dovercourt ...	rsoc	racf	28	45	7	4	0·0
	Lowestoft ...	orsor	orrof	27	41	3	8	0·0
	Skegness ...	oror	oro	30	41	4	2	0·0
	Mablethorpe...	or	orm	31	42	7	3	0·0
	Cleethorpes ...	crirc	cr.c	28	43	6	3	0·0
3	Leamington S.	ro	o	21	51	13	0·1	0·0
4	Cheltenham†	oro	oco	32	52	10	0·3	0·0
5	Bath	cr	rc	29	54	12	1	0·0
	Weymouth ...	c	Rc	37	51	9	Trace	0·0
	Jersey ...	crc	cbc	41	52	8	0·6	0·1
	Torquay ...	oid.	cbcq	37	53	7	Trace	0·0
	Falmouth	omdrc	c	45	53	9	1	0·0
	Penzance ...	odd	c	47	54	14	Trace	0·0
	St. Ives ...							
	Bude... ...	dr	o	42	52	1	1	0·0
	Ilfracombe ...	rror	roco	41	53	10	1	0·0
6	Aberystwyth	rrpr	pro	38	50	12	4	0·0
7	Llandudno ...	od.c	cr.c	32	54	8	0·5	0·0
	Colwyn Bay...							
	Rhyl	prc	cbcc	25	55	12	–	0·7
8	Wallasey ...	oc	c	26	53	19	0·3	0·0
	Southport ...	romo	omobc	32	51	23	3	0·0
	Blackpool ...	orf	ofmm.	32	49	19	3	0·0
	Morecambe ...	ordr	c	29	49	21	5	0·0
9	Ilkley... ...	rso	o	20	49	10	1	0·0
	Harrogate ...	ord.	ifid.	26	46	8	1	0·0
10	Berwick-on-T.	oir.	oir.	20	43	2	0·6	0·0
11	Dunbar ...	cr.	crr	32	49	1	2	0·2
12	Troon... ...	ddoro	rrorr	35	51	8	6	0·0
	Douglas ...	fRd	ofcid	37	50	28	0·3	0·0

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.

AIR MINISTRY, METEOROLOGICAL OFFICE.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	Forecasts for the 24 hours commencing 12 noon, G.M.T. 8th January, 1939.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Wind southwest, fresh to strong; mainly cloudy, local drizzle; very mild.
5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England	Wind southwest, strong to gale; occasional rain or drizzle; very mild.
9 N. Midlands ... 10 N.E. England	As 1 - 4.
11 S.E. Scotland 12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland 17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 5 - 8.

GENERAL INFERENCE.

A deep depression covers the eastern Atlantic while minor secondaries will move northeastwards across Ireland and Scotland. Weather will continue very mild generally, with occasional rain or drizzle in the North and West and light local drizzle in the East and South.

FURTHER OUTLOOK.

Continuing mild and unsettled.

Times of Issue of Gale Warnings.

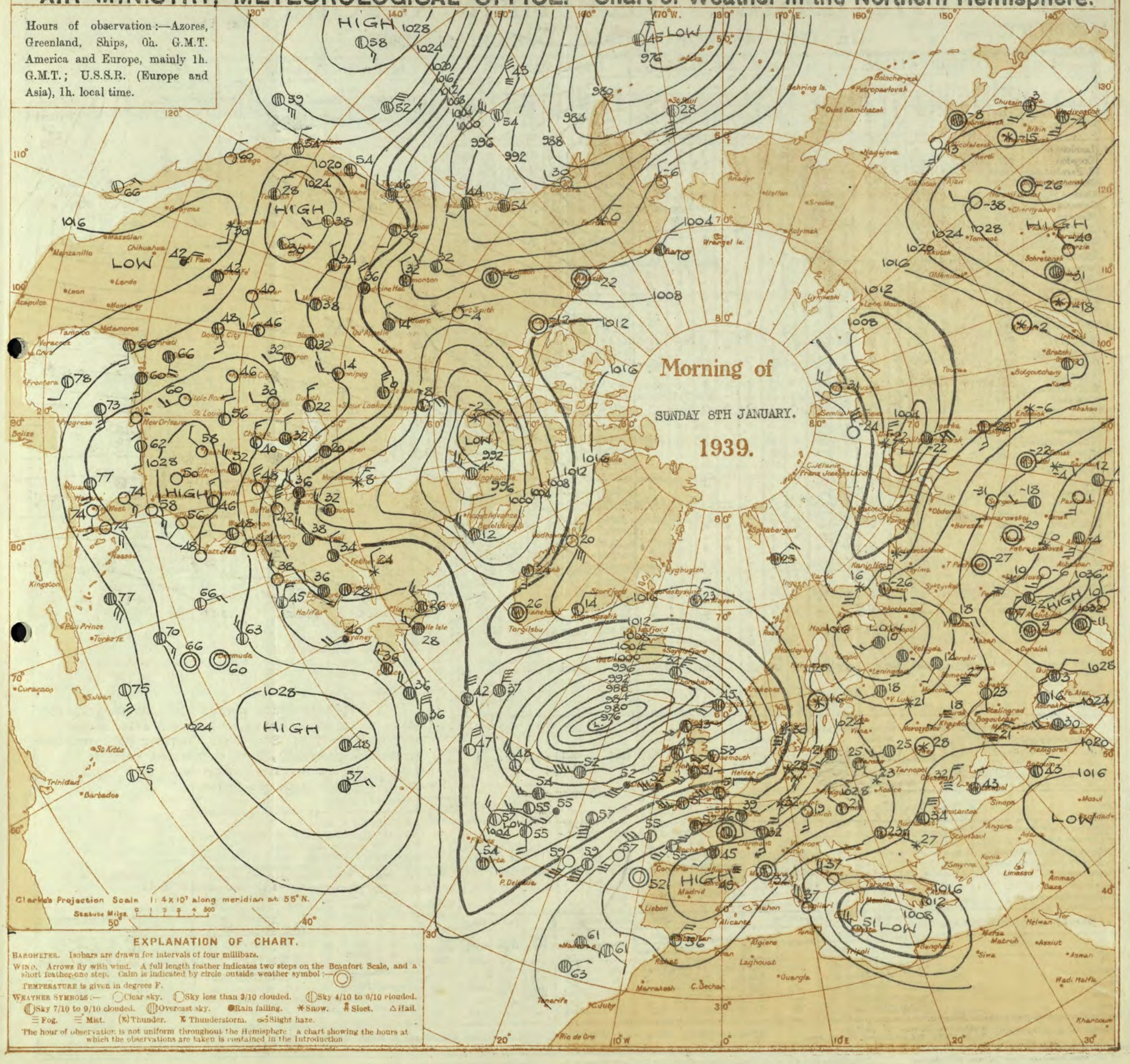
South Cone hoisted at 0335 on 7/1/39 in districts 15 and 16; at 0810 on 7/1/39 in district 11 and at 1515 on 7/1/39 in districts 5, 6, 7, 8, 12, 17, 18, 19, and 20.

Forecasts issued at 1000 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S.
Director.

H.M. Stationery Office Press, Kingsway, W.C.2. C.136/3473. m.6096. D.9769. Gp.948. 29140. 1/39.

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

~~To Sunday~~ 8th January, 1939

No. 28171

OBSERVATIONS at 1 hr. G.M.T. 8th January

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1016·6	-2	SW	5	c	51	85	7	5	7	7	2·3	9+	2500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1018·0	-6	SW'W	5	c	48	92	7	5	-	-	9+	9+	1500
	Manston ...	154	1016·7	-6	SW	5	c	48	85	7	-	7	-	0	9+	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1012·0	+4	SW'W	5	c	45	92	8	5	3	-	4·6	9+	2500
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1013·6	-4	SW	8	o	50	97	7	-	2	-	10	10	800
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1017·6	+2	WSW	4	c	50	92	7	5	7	-	7·8	10	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1018·6	-2	SW'S	5	c	51	97	7	8	2	-	9	10	1500
	Scilly (St. Mary's)	163	1017·0	-6	SW'W	5	c	51	92	6	5	3	-	4·6	7·8	1500
	Guernsey ..	175	1021·1	+2	SW'S	4	bc	50	85	8	-	3	8	0	4·6	-
6	Pembroke ...	142	1012·7	-2	SW'W	7	oq	52	92	7	5	-	-	10	10	1500
7	Holyhead ...	26	1007·6	-2	SW	5	o	51	92	6	5	-	-	10	10	220
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1007·4	-2	SW	5	c	47	92	6	4	1	-	4·6	10	4000
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1001·3	+6	SW	4	bc	53	75	7	2	-	1	2·3	2·3	2500
11	St Abbs Head ..	280	999·3	+16	W	6	bcq	49	75	8	2	1	-	2·3	4·6	2500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1004·8	+12	W'S	6	c	54	85	8	8	7	-	4·6	10	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	994·6	+10	SW	3	c	43	92	8	5	-	6	4·6	7·8	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	993·3	0	SW	3	r.r.	42	97	7	5	2	-	9	10	800
16	Lerwick ...	156	990·3	0	SW	4	c	45	92	6	5	2	-	4·6	10	800
17	Blacksod Point	18	1001·2	0	S	5	ir	52	92	7	6	-	-	10	10	220
18	Malin Head ...	84	1000·1	+6	SSW	3	c	49	85	7	8	2	-	4·6	9	2500
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1005·7	-10	SW	6	rr	52	97	6	5	-	-	10	10	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 8th January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1016·5	+4	SW	5	c	50	85	8	5	-	-	9+	9+	2500	1	*
Croydon ...	1017·0	+6	SW	5	c	51	85	8	5	-	-	9+	9+	4000	1	*
S. Farnborough	1017·2	+8	SW	4	ir.	51	85	6	5	2	-	9	9+	1500	1	*
Boscombe Down	1016·6	-4	SW	6	c	50	92	8	5	-	-	9+	9+	2500	1	*
Calshot (Sthmtn.)	1018·5	-2	SW'W	5	d.d.	49	92	6	6	-	-	10	10	450	1	3
Lympne ...	1018·6	+6	SW'W	5	c	49	92	7	5	-	-	10	10	1500	1	§4
Manston ...	1016·7	+2	SW'W	6	c	49	85	7	5	-	8	2·3	7·8	1500	1	*
Shoeburyness ...	1016·9	+6	SW	3	c	49	85	7	5	-	6	7·8	9+	800	1	*
Felixstowe ...	1015·3	+2	S'W	4	c	47	92	7	5	2	-	9	9+	1500	1	4
Gorleston ...	1012·6	0	WSW	4	c	50	85	8	4	3	8	1	7·8	2500	1	3
Mildenhall ...	1013·2	+6	SW	5	bc	52	85	8	5	2	-	2·3	4·6	1500	1	*
Cranwell ...	1010·2	+6	SW	6	c	50	92	7	5	2	-	4·6	7·8	2500	1	*
Birmingham ...	1011·9	+2	WSW	4	c	51	75	8	5	-	-	9+	9+	1500	1	*
Upper Heyford	1015·0	+6	SW'S	4	c	49	92	7	5	-	-	9+	9+	1500	1	*
Ross-on-Wye	1012·9	-6	WSW	5	cq	52	85	7	8	-	-	9	9	2500	1	*
Hartland Point	1013·5	-8	SW	8	id.	50	97	7	6	2	-	7·8	9+	800	1	5
Bristol ...	1015·5	-2	WSW	4	c	51	85	8	8	-	-	7·8	7·8	1500	1	*
Portland Bill ...	1017·7	+4	WSW	4	o	50	92	7	5	-	-	10	10	2500	1	4
Plymouth ...	1017·6	-4	SSW	5	z.	51	92	6	6	2	-	9	10	800	1	4
The Lizard ...	1017·7	-6	SSW	5	c	51	97	8	8	6	-	4·6	7·8	2500	1	3
Scilly (St. Mary's)	1015·7	-6	SW	5	c	51	92	6	5	3	-	2·3	7·8	1500	1	3
Guernsey ..	1022·4	0	SW	4	bc	50	92	7	-	3	-	0	4·6	-	1	3
Pembroke ...	1011·8	-2	SW'W	7	cq	51	92	6	8	-	-	9	9	800	1	4
Holyhead ...	1006·8	-2	SW'S	6	c	51	85	7	5	-	-	10	10	800	1	3
Chester (Sealand)	1008·4	-4	SSW	5	c/r	54	75	6	6	-	-	9	9	1500	1	*
Manchester ...	1008·2	-2	SW'W	5	c	53	85	7	5	7	-	9	10	2500	1	*
Spurn Head ...	1007·5	0	SW'S	5	c	47	92	7	6	-	-	7·8	7·8	1500	1	3
Catterick ...	1003·0	-10	SW'W	6	pr	52	85	7	5	-	-	9	9	1500	1	*
Tynemouth ...	1003·7	0	SW	2	o	50	85	7	5	-	-	10	10	1500	1	1
St Abbs Head ..	999·0	0	WSW	6	cq	47	75	8	3	2	-	7·8	10	2500	0	4
Leuchars ...	999·4	-2	WSW	4	c	46	85	8	5	-	-	10	10	1500	1	*
Renfrew (Abbots I.)	1000·7	0	SSW	3	r.r.	47	92	6	5	-	-	10	10	4000	1	*
Eskdalemuir ...	1002·6	-4	SW'W	4	rr	45	92	6	6	-	-	10	10	450	1	*
Point of Ayre...	1004·0	-2	W'S	3	DD	49	97	6	-	2	-	10	10	1500	1	3
Tiree	995·9	-6	SW'S	6	c	49	92	7	5	-	-	9	9	1500	1	*
Stornoway ...	997·0	-14	SW	6	c	49	92	7	5	-	7	4·6	10	2500	1	3
Dalwhinnie ...	997·9	+2	S	3	RR	42	92	6	6	-	-	10	10	1500	1	*
Aberdeen ...	996·4	-8	SWW	3	c	47	75	7	5	7	-	7·8	9+	2500	1	1
Wick ...	993·5	+4	SW	4	c	42	92	8	5	2	-	7·8	10	1500	1	2
Lerwick ...	989·9	-4	SSW	5	c	45	85	8	8	7	-	4·6	7·8	1500	1	*
Blacksod Point	1000·3	-14	S	5	c	49	97	7	5	-	-	10	10	800	1	4
Malin Head ...	999·6	-10	SSW	4	c	47	85	7	5	-	-	9+	9+	2500	1	3
Aldergrove ...	1002·5	-12	SW'S	3	ir.	46	97	7	-	2	-	10	10	4000	1	*
Birr Castle ...	1003·5	-10	SSW	5	c/r	53	97	7	6	2	-	4·6	10	800	1	*
Valentia Obsy. †	1004·3	-14	SW'S	6	DD	53	97	5	6	-	-	10	10	220	1	4
Roches Point	1007·6	-14	SW'W	6	id.	52	97	6	5	-	-	10	10	450	1	4

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Temperature Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 7h. Hrs. (36)
London (Kew)	52	49	47	1	Tr	0·0
Croydon ...	53	49	47	2	Tr	0·0
S. Farnborough	52	49	47	0·4	Tr	0·0
Boscombe Down	52	49	45	0·3	Tr	0·0
Calshot (Sthmtn.)	51	47	46	Tr	0·1	0·0
Lympne ...	47	47	44	12	-	0·0
Manston ...	46	46	43	8	-	0·0
Shoeburyness ...	49	47	42	5	Tr	0·0
Felixstowe ...	44	42	40	8	0·1	0·0
Gorleston ...	44	44	38	8	-	0·0
Mildenhall ...	47	46	43	6	0·2	0·0
Cranwell ...	44	43	32	5	0·1	0·0
Birmingham ...	51	48	47	0·6	0·1	0·0
Upper Heyford	50	48	46	2	0·2	*
Ross-on-Wye	54	51	49	0·2	Tr	0·3
Hartland Point	51	49	48	1	1	0·0
Bristol ...	53	51	47	2	0·3	0·0
Portland Bill ...	54	42	*	0·2	*	*
Plymouth ...	52	50	49	0·1	Tr	0·0
The Lizard ...	52	50	*	0·4	-	0·0
Scilly (St. Mary's)	53	51	*	0·1	-	0·4
Guernsey ..	52	49	46	1	-	0·0
Pembroke ...	52	50	*	1	Tr	0·0
Holyhead ...	51	50	49	2	-	0·0
Chester (Sealand)	54	54	50	1	Tr	0·0
Manchester ...	52	48	46	6	0·1	0·0
Spurn Head ...	42	41	*	4	Tr	0·0
Catterick ...	45	40	39	1	0·2	0·0
Tynemouth ...	43	42	38	0·4	-	0·0
St Abbs Head ..	45	43	*	2	Tr	*
Leuchars ...	40	36	34	1	1	0·0
Renfrew (Abbots I.)	40	39	39	16	5	0·0
Eskdalemuir ...	42	41	39	13	9	0·0
Point of Ayre...	55	48	*	5	9	0·1
Tiree	49	46	45	6	2	0·0
Stornoway ...	48	43	*	7	6	0·0
Dalwhinnie ...	40	33	32	18	6	0·0
Aberdeen ...	40	37	32	2	0·2	0·0
Wick ...	44	39	*	3	2	*
Lerwick ...	46	42	*	8	-	0·0
Blacksod Point	55	48	*	6	1	*
Malin Head ...	52	45	*	9	0·1	0·0
Aldergrove ...	53	45	42	3	0·6	0·0
Birr Castle ...	56	49	46	1	7	0·0
Valentia Obsy. †	55	53	51	1	7	0·0
Roches Point	53	51	*	1	0·5	*

LONDON OBSERVATIONS

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except for rainfall which is 9h—18h.

	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon (24 hrs. ended 9h.)	Weather Night (24 hrs. ended 9h.)	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew ...	18	cm.irm	cir.m.	cir.cf	52	49	47	1	Tr	0·0	*	*	8
Croydon ...	217	cr.r.d.f	ofmir.id.	cd.m.c	53	49	47	2	Tr	0·0	*	*	8
Greenwich (Royal Observatory) ...	149	cr.	r.c	cd.c	52	50	45	1	Tr	0·0	97	79	6
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*	0·0	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	50	41	41	0·6	*		97	82	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	52	40	39	Tr	Tr	0·0	87	79	*
Camden Square ...	110	c	o	*	50	40	38	1	-	*	*	83	*
Kensington ...	80	cr	c	*	52	47	42	0·5	Tr		At 12h. 93	83	*
Hampstead Observatory ...	450	or	o	o	51	48	44	1	-	0·0	*	87	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 8th.

South Kensington Max.	Time.	Min.	Time.

Kew Observatory Max.	Time.	Min.	Time.
0·3	12h. 7th.	<0·1	0-7h. 8th.

FOREIGN OBSERVATIONS.

18h. G.M.T. 7th January — 7h. G.M.T. 8th January

Stations	18h. Barom. mb.	18h. Wind Direc.	18h. Wind Force	18h. Weather	18h. Temp. °F.	7h. Barom. mb.	7h. Wind Direc.	7h. Wind Force	7h. Weather	7h. Temp. °F.	Past 24 Hours Max. Day °F.	Past 24 Hours Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris ...	1024·6	SSW	4	id.	36	1025·1	SW	3	o	46	36	36	1	0·2
Brussels ...	1021·4	SSW	5	o	34	1019·9	WSW	5	c	45	34	34	3	1
Berlin ...	1029·1	WSW	2	z.	23	1014·2	S'W	6	d.d.	30	28	18	Tr	2
Zurich ...	1030·8	WSW	1	m	27	1030·8	SSE	2	o	32	36	27	-	-
Rome ...	1015·8	NNW	7	b	41	1019·8	N	5	b	36	*	*	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	<1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	> 75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22 — Code for surface visibility.

		Objects not visible at
0	Dense fog	55 yards.
1	Thick fog	220 ,,
2	Fog	550 ,,
3	Moderate fog	1,100 ,,
4	Mist or haze	1¼ miles.
5	Poor visibility	2½ ,,
6	Moderate ,,	6½ ,,
7	Good ,,	12½ ,,
8	Very good ,,	31 ,,
9	Excellent ,,	beyond 31 m.

COLUMN 30.—Code for State of Sea.

0	Calm.	5	Very rough.
1	Smooth.	6	High.
2	Slight.	7	Very high.
3	Moderate.	8	Precipitous.
4	Rough.	9	Confused.

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY, LONDON, W.C.2.

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 9th January, 1939
No 28172

OBSERVATIONS at 13h. G.M.T. 8th January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	°Temp. F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1016.4	−6	SW	4	c	53	75	7	5	–	–	9+	9+	2500
	Croydon ...	1016.5	−6	SW'W	5	c	53	75	6	5	–	–	9+	9+	4000
	S. Farnborough	1017.0	−4	SW'W	6	c	52	85	7	5	3	–	7-8	9+	1500
	Boscombe Down	1017.1	−6	SW	3	c	52	85	7	5	–	–	10	10	1500
	Calshot (Sthmtn.)	1018.6	−6	SW'W	5	z	51	85	6	6	–	–	10	10	800
	Lympne ...	1018.6	−10	SW	6	c	45	85	7	5	7	–	4-6	9+	1500
	Manston ...	1017.3	−10	SW'W	5	c	51	85	7	5	3	–	9	9+	1500
2	Shoeburyness ...	1015.6	−12	SW'W	5	c	51	85	7	1	4	6	Tr	7-8	2500
	Felixstowe ...	1015.2	−10	SW	5	c	48	85	7	5	7	8	2-3	9+	1500
	Gorleston ...	1012.8	0	SW'S	5	c	53	75	6	5	–	8	7-8	7-8	2500
	Mildenhall ...	1013.4	−2	SW	6	c	54	75	8	5	7	–	9+	10	4000
	Cranwell ...	1009.7	−2	SW	5	z	52	85	6	5	–	–	9+	9+	2500
3	Birmingham ...	1011.4	−4	SW	3	c	53	75	7	5	–	–	9+	9+	1500
	Upper Heyford	1014.9	0	SW'W	4	c/d	52	75	7	5	7	–	9	9+	1500
4	Ross-on-Wye	1013.4	0	WSW	5	c/q	54	75	8	8	3	–	9+	9+	2500
5	Hartland Point	1014.0	0	SW	8	r₀r₀	50	97	6	–	2	–	10	10	800
	Bristol ...	1015.6	−4	SW'W	4	r₀	53	85	7	5	–	–	9+	9+	1500
	Portland Bill ...	1017.8	+4	SW	5	c	50	92	7	2	–	–	9	9	2500
	Plymouth ...	1017.5	−6	SW'S	6	id₀	51	92	6	6	2	–	9	9+	800
	The Lizard ...	1017.3	−10	SSW	6	c	52	97	7	8	2	–	7-8	9+	1500
	Scilly (St. Mary's)	1016.0	−6	SW	5	c	52	92	6	5	6	–	4-6	10	1500
	Guernsey ...	1021.0	−2	SSW	4	c	52	85	8	5	–	–	9	9	2500
6	Pembroke ...	1012.2	0	SW'W	7	c/q	51	92	6	8	–	–	9	9	1500
7	Holyhead ...	1005.7	−8	SW'S	6	c	52	85	6	5	–	–	10	10	800
	Chester (Sealand)	1008.6	−6	SSW	5	id₀	56	75	8	6	–	–	9+	9+	1500
8	Manchester ...	1008.0	−6	SW	5	c	54	85	7	5	–	–	10	10	1500
10	Spurn Head ...	1007.1	−2	SW'W	6	c	52	75	6	4	3	2	4-6	7-8	2500
	Catterick ...	1003.0	−2	SW	5	pr	53	85	8	5	7	–	7-8	7-8	1500
	Tynemouth ...	1002.3	−10	WSW	2	9/f	52	85	4	5	–	–	10	10	1500
11	St. Abbs Head ...	999.5	−4	SW	6	c/pr	48	85	8	3	2	–	7-8	10	2500
	Leuchars ...	999.3	−2	WSW	4	c	47	85	7	5	7	–	1	10	1500
12	Renfrew (Abbots I.)	1000.3	−2	SW'W	3	r₀r₀	47	92	6	6	2	–	7-8	10	450
	Eskdalemuir ...	1001.1	−8	SW'S	3	rr	45	97	5	6	–	–	10	10	220
	Point of Ayre ...	1002.4	−8	W	5	DD	51	97	6	–	2	–	10	10	800
13A	Tiree ...	996.4	0	SW	6	c	49	97	7	5	1	–	7-8	9+	1500
13B	Stornoway ...	993.2	+2	WSW	5	c	48	85	7	5	2	–	7-8	10	2500
15	Dalwhinnie ...	997.6	−2	SW	4	c	42	92	7	5	–	–	10	10	2500
	Aberdeen ...	996.6	−2	WSW	2	c	48	75	6	–	7	–	0	9	–
	Wick ...	993.4	+4	SW	4	c	42	92	8	5	3	–	7-8	9+	1500
16	Lerwick ...	987.8	−12	SW	8	c	46	85	7	8	7	–	7-8	9+	800
17	Blacksod Point	1001.7	0	S	5	c	51	92	7	5	–	–	10	10	800
18	Malin Head ...	999.4	−2	SW	4	c	48	85	7	8	2	–	4-6	10	4000
	Aldergrove ...	1002.2	−2	WSW	3	c/r	47	97	8	5	–	–	10	10	450
19	Birr Castle ...	1003.8	0	SSW	2	ir	49	97	7	6	2	–	4-6	10	800
20	Valentia Obsy. †	1004.0	−14	SW'S	6	rr	53	97	5	6	–	–	10	10	800
	Roches Point	1007.6	−4	S	[illegible]	c	52	92	7	5	–	–	9+	9+	800

OBSERVATIONS at 18h. G.M.T. 8th January

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	°Temp. F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1015.9	+2	SW'S	5	c	51	85	7	5	–	–	9+	9+	1500	1	*
	Croydon ...	1016.8	0	SW	6	c/d	51	85	6	5	3	–	7-8	9+	1500	1	*
	S. Farnborough	1016.6	−2	SW	6	id₀	49	92	6	6	–	–	9	9	800	1	*
	Boscombe Down	1016.4	−2	SW	4	d₀d₀	49	97	6	6	–	–	10	10	800	1	*
	Calshot (Sthmtn.)	1018.2	−2	SW	6	c/d	49	85	6	6	2	–	10	10	800	1	4
	Lympne ...	1019.0	+2	SW'S	5	c	48	92	7	5	–	–	10	10	450	1	§4
	Manston ...	1017.4	+2	SW	6	ir₀	50	85	7	5	–	–	9+	9+	1500	1	*
2	Shoeburyness ...	1015.8	−2	SW	5	c	49	92	7	4	–	6	4-6	7-8	2500	1	*
	Felixstowe ...	1015.0	−2	SW	5	bc	46	85	7	5	7	8	2-3	4-6	2500	1	4
	Gorleston ...	1012.8	−2	SW	4	c	51	85	6	5	–	–	9+	9+	2500	1	3
	Mildenhall ...	1013.1	+2	SW'S	4	c	53	75	8	5	1	–	9+	10	4000	1	*
	Cranwell ...	1009.5	−4	SW	6	z₀	52	85	6	5	–	–	10	10	2500	1	*
3	Birmingham ...	1010.9	+2	SW	4	c	52	85	7	6	–	–	10	10	800	1	*
	Upper Heyford	1014.1	−2	SW	4	c	51	85	7	5	–	–	10	10	1500	1	*
4	Ross-on-Wye	1013.0	−4	SW	4	c	53	85	7	5	–	–	10	10	2500	1	*
5	Hartland Point	1012.6	−6	SW	8	id	50	97	7	–	2	–	10	10	800	1	5
	Bristol ...	1014.8	−2	WSW	4	c/r	52	85	7	5	–	–	9+	9+	1500	1	*
	Portland Bill ...	1017.1	−12	SW	5	c	50	92	7	5	7	–	7-8	10	2500	1	4
	Plymouth ...	1016.7	−6	S'W	6	d₀d₀	50	97	5	6	2	–	9	10	450	1	4
	The Lizard ...	1016.0	−4	SSW	6	c/q	50	97	2	5	–	–	10	10	1500	1	3
	Scilly (St. Mary's)	1014.6	−4	SW	6	bc	51	85	7	8	6	–	2-3	2-3	1500	1	4
	Guernsey ...	1020.2	−6	SW'S	3	o	50	85	6	5	–	–	10	10	2500	1	3
6	Pembroke ...	1011.0	−6	SW	7	d₀d₀	50	97	6	5	–	–	10	10	800	1	4
7	Holyhead ...	1005.4	−2	SW'S	6	d₀d₀	51	92	6	5	–	–	10	10	800	1	3
	Chester (Sealand)	1007.0	−6	SSW	6	c	55	75	8	6	–	–	7-8	7-8	2500	1	*
8	Manchester ...	1007.3	−6	SW'S	4	c	54	75	7	5	2	–	9+	10	1500	1	*
10	Spurn Head ...	1006.8	0	SW'S	5	cq	49	85	6	8	9	2	2-3	7-8	2500	0	3
	Catterick ...	1001.3	−6	SWW	5	bc/r	53	85	7	5	–	–	4-6	4-6	1500	1	*
	Tynemouth ...	1002.9	+6	W	2	r₀r₀	49	92	6	6	–	–	10	10	800	1	1
11	St. Abbs Head ...	1000.1	0	SW	3	c	45	85	9	4	6	–	4-6	9+	2500	0	2
	Leuchars ...	998.7	−4	SW	4	z₀	45	92	6	6	2	–	4-6	10	1500	1	*
12	Renfrew (Abbots I.)	1000.2	−6	SW'S	3	r₀r₀	47	92	6	6	2	–	7-8	10	800	1	*
	Eskdalemuir ...	1001.8	+2	SW'W	4	rr	44	92	5	6	–	–	10	10	450	2	*
	Point of Ayre ...	1002.9	0	W'N	2	DD	47	97	6	–	2	–	10	10	800	4	2
13A	Tiree ...	996.1	0	SW'S	5	c	48	97	7	5	–	–	9+	9+	1500	1	4
13B	Stornoway ...	993.0	0	WSW	5	c	47	75	7	5	7	–	4-6	7-8	2500	1	3
15	Dalwhinnie ...	997.6	−4	SW	5	rr	42	85	7	5	–	–	10	10	2500	1	*
	Aberdeen ...	996.9	−2	WSW	2	bc	46	75	6	–	7	–	0	4-6	–	1	1
	Wick ...	992.6	−2	SW	4	c	42	97	8	5	7	8	4-6	7-8	1500	1	2
16	Lerwick ...	987.7	0	W	8	c/r	45	85	7	8	7	–	4-6	7-8	800	1	*
17	Blacksod Point	1001.0	−6	S	5	ir	50	92	7	6	–	–	10	10	800	1	3
18	Malin Head ...	999.2	−4	SW	4	r₀r₀	47	92	6	6	2	–	4-6	10	2500	1	4
	Aldergrove ...	1001.6	−6	SW	3	r₀r₀	46	97	7	–	2	–	10	10	4000	1	*
19	Birr Castle ...	1003.4	−4	SSW	2	rr	47	97	7	6	2	–	10	10	800	1	*
20	Valentia Obsy. †	1001.8	−26	SSW	7	r₀r₀	53	92	5	6	–	–	10	10	800	1	4
	Roches Point	1004.4	−6	SW'W	7	c	52	97	7	5	–	–	9+	9+	800	1	4

PAST 24 HOURS.

District	Stations	Weather. 7h.—13h. 8th (37)	13h.—18h. 8th (38)	18h. 8th to 1h. 9th (39)	1h.—7h. 9th (40)
1	London (Kew)	c	c	c ir c	c
	Croydon ...	c z₀	c z₀ m i d₀	c d₀ d₀ c	c
	S. Farnborough	c r₀ b c c	c i d₀ m₀	c i d₀ c m₀	c b c c m₀
	Boscombe Down	c	c i d₀ c d d	c d₀ d₀ r r c	c
	Calshot (Sthmtn.)	o d₀ d₀ m₀	o d b d₀ m₀	o d₀ c	c
	Lympne ...	c d₀	c	c	c
	Manston ...	c m₀ c	c	c p r₀	c
2	Shoeburyness ...	c b c	b c c	c i d c c	c b c
	Felixstowe ...	c	c	b c c i r₀ c	c, b b c
	Gorleston ...	c q	c q	c b c c q	c b c c q
	Mildenhall ...	c	c	c	c
	Cranwell ...	b c c m₀	c m₀	c m₀	c q m₀
3	Birmingham ...	c	c i d₀	c r₀	c
	Upper Heyford	c i d₀	c i c q	c i r₀ c q	c q
4	Ross-on-Wye	c q	c q d₀ q c	c q	c q d₀
5	Hartland Point	c o i d₀ r₀ c	c r₀ r₀ d₀	c	c o
	Bristol ...	c d₀ r₀	c r₀	c r₀ c q	c q
	Portland Bill ...	o c	c	c	c
	Plymouth ...	c m₀ i d₀ m₀	c i d₀ d d	c d₀ d₀ i d₀	c m₀
	The Lizard ...	c b c c	c i d m	i d₀ c	c p r q
	Scilly (St. Mary's)	c i d₀ c	c b c	b c c b c	b c c
	Guernsey ...	b c c	c b c c	o	o
6	Pembroke ...	r₀ m₀ c	c d₀ d₀ m₀ c	i d m₀ c q	i d r r q m₀ c
7	Holyhead ...	d₀ m₀ c	d₀ d₀ m₀ c	d₀ d₀ m₀ c	d R r r c
	Chester (Sealand)	c i r₀ d₀	c d₀	b c i r₀	c r r m₀
8	Manchester ...	c	c	c	c o R R m₀
10	Spurn Head ...	c q	c q w	c q	c q
	Catterick ...	c p r₀	p r i r₀ b c	b c	c r₀ r₀ c
	Tynemouth ...	o i r₀ f f	o i r₀ r r	o r₀ r₀ m₀	o i r
11	St. Abbs Head ...	i r₀ q c	c	r r c	r r c
	Leuchars ...	c	c e m₀	c m₀ r₀	c m₀ r₀ r₀ c
12	Renfrew (Abbots I.)	c m₀ r₀ r₀	c m₀ r₀ r₀	c m₀ r₀	c m₀ r₀ r₀ c
	Eskdalemuir ...	o r₀ r₀ r r	o d d r r	o r r m₀	c m₀ r r p₀
	Point of Ayre ...	D D	D D	D D	o r r m₀
13A	Tiree ...	c i r c	c i r	c	r r c
13B	Stornoway ...	c P R	c P R T L	c p r₀	c p r b c
15	Dalwhinnie ...	c R r i r	c r r		b c c p r
	Aberdeen ...	c c z₀	c b c z₀	b c b b c c	c R r
	Wick ...	c p r₀	c b c c	b c c	c z₀
16	Lerwick ...	c P H R p h r	c i r	c i r r r	c
17	Blacksod Point	i r	i r	i d r	p r c q
18	Malin Head ...	c	c	c i r c	c p r c
	Aldergrove ...	c i r₀ m₀ c	c i r₀ b b	r₀ r₀ r r m₀	c r r m₀ b
19	Birr Castle ...	c i r	c i r r r	c r r	r r c p r
20	Valentia Obsy. †	D D r r	r r d d r₀ b	r₀ r₀ d₀ d₀ c	c b c p r₀ b
	Roches Point	o i d₀ c	c i d₀ c	c i d₀ c	c i r c

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40.—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s₀, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r₀, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
⊕, Solar halo. ☽ lunar halo. Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus, As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. „ wet.
2 .. „ flooded
3 .. „ frozen hard and dry.
4 .. „ partly covered with snow or hail.
5 .. „ covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. „ covered with snow, less than 6 ins., deep but ground not frozen.
8 .. „ covered with snow, less than 6 ins., but ground frozen
9 .. „ covered with snow greater than 6 ins. deep

NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2*

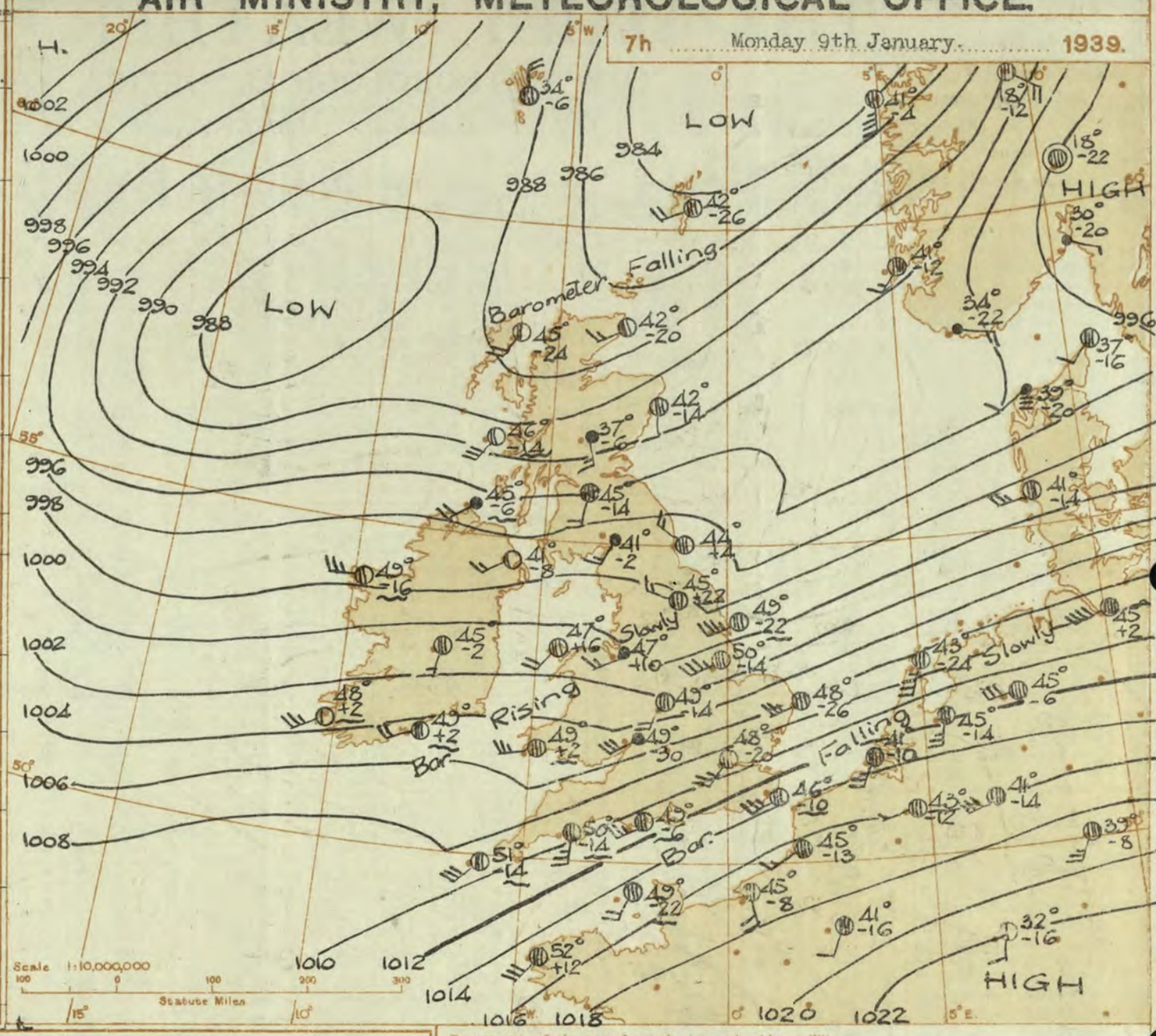
§ Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 8th January, 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F.) Min. 9h. 7th to 9h. 8th	Temperature. (°F.) Max. 9h.—17h. 8th	Rainfall. (mm.) Night. 17h. 7th to 9h. 8th	Rainfall. (mm.) Day. 9h.—17h. 8th	Sunshine (hrs.) Sunrise to Sunset. 8th
1	Tunbridge W.	odo	ood	38	50	Trace	Trace	0.0
	Bournemouth	o	od.	49	52	Trace	Trace	0.0
	Ventnor ...	o	o	48	50	—	—	0.0
	Southsea ...	cbc	bcc	48	52	Trace	—	0.1
	Bognor Regis	c	c	44	49	—	—	0.0
	Littlehampton	c	c	43	50	—	—	0.0
	Worthing ...	c	c	44	49	Trace	—	0.1
	Brighton ...	c	cbc	42	50	—	—	0.3
	Eastbourne† ...	co	oc	49	51	Trace	—	0.1
	Hastings† ...	coc	coco	46	50	0.3	—	0.0
	Folkestone ...	oco	cbcco	36	50	Trace	—	0.2
	Dover ...	oc	co	36	50	0.3	—	0.0
	Deal	od.o	co	35	51	0.5	Trace	0.6
	Ramsgate ...	c	c	36	52	—	—	0.0
	Margate ...	c	c	35	53	—	—	0.0
2	Southend ...	cbc	bcc	36	50	Trace	—	2.2
	Clacton-on-Sea	cbc	bc	33	49	—	—	0.8
	Dovercourt ...	bcc	bc	36	54	—	—	1.3
	Lowestoft ...	cbc	bcc	34	53	—	—	0.2
	Skegness ...	ccbc	cbcc	35	53	Trace	—	0.7
	Mablethorpe...	bc	bc	38	53	Trace	—	0.1
	Cleethorpes ...	bc	bc	34	54	Trace	—	0.4
3	Leamington S.	co	o	40	53	—	—	0.0
4	Cheltenham†	c	co	49	53	0.3	—	0.0
5	Bath	c	cbc	50	56	Trace	—	0.5
	Weymouth ...	c	c	49	53	Trace	—	0.2
	Jersey ...	c	c	47	53	Trace	—	0.0
	Torquay ...	cq	oqdob	51	54	0.1	0.2	0.3
	Falmouth	c	cod.q	51	53	—	Trace	0.0
	Penzance ...	cmqm	cmqm	51	54	—	Trace	0.0
	St. Ives ...							
	Bude... ...	o	o	51	52	0.3	—	0.0
	Ilfracombe ...	bccbc	cbo	51	54	0.2	0.3	0.0
6	Aberystwyth	idc	idc	46	51	1	0.5	0.0
7	Llandudno ...	d.bcq	bccq	48	56	0.1	Trace	2.5
	Colwyn Bay...	cbcc	bcb	51	58	—	—	1.4
	Rhyl	cbc	bcc	49	58	—	—	3.3
8	Wallasey ...	c	c	39	55	—	—	0.0
	Southport ...	o	bco	48	54	0.5	—	0.0
	Blackpool ...	om.	bom.	37	51	0.3	Trace	0.0
	Morecambe ...	drm	c	36	51	1	Trace	0.0
9	Ilkley... ...	rod.	od.	32	54	2	0.3	0.0
	Harrogate ...	cq	cq	34	53	0.2	—	0.0
10	Berwick-on-T.	c	c.c	35	49	0.2	Trace	0.1
11	Dunbar ...	bc	cbr.	38	51	0.3	Trace	0.0
12	Troon... ...	pcorc	rrorr	44	48	0.5	1	0.0
	Douglas ...	cfif	cffdd	47	50	8	6	0.0

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 9th January, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England	Southwest to west winds, strong to gale at times, moderating; occasional rain; some bright intervals; rather mild.
6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Westerly winds, fresh to strong at times; rainy and bright periods; rather mild.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. / B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Southwest to west winds, veering temporarily, fresh to strong at times; occasional rain, sleet on high ground; some bright periods; rather mild then average temperature.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Westerly winds, strong at times; occasional rain; some bright intervals; rather mild.

GENERAL INFERENCE.

A complex depression has centres to the northeast and northwest of the British Isles. It will continue rather mild generally with rain at times in most areas.

FURTHER OUTLOOK.

Continuing mild in the South; becoming somewhat colder in North and West Scotland.

Time of Issue of Gale Warnings.

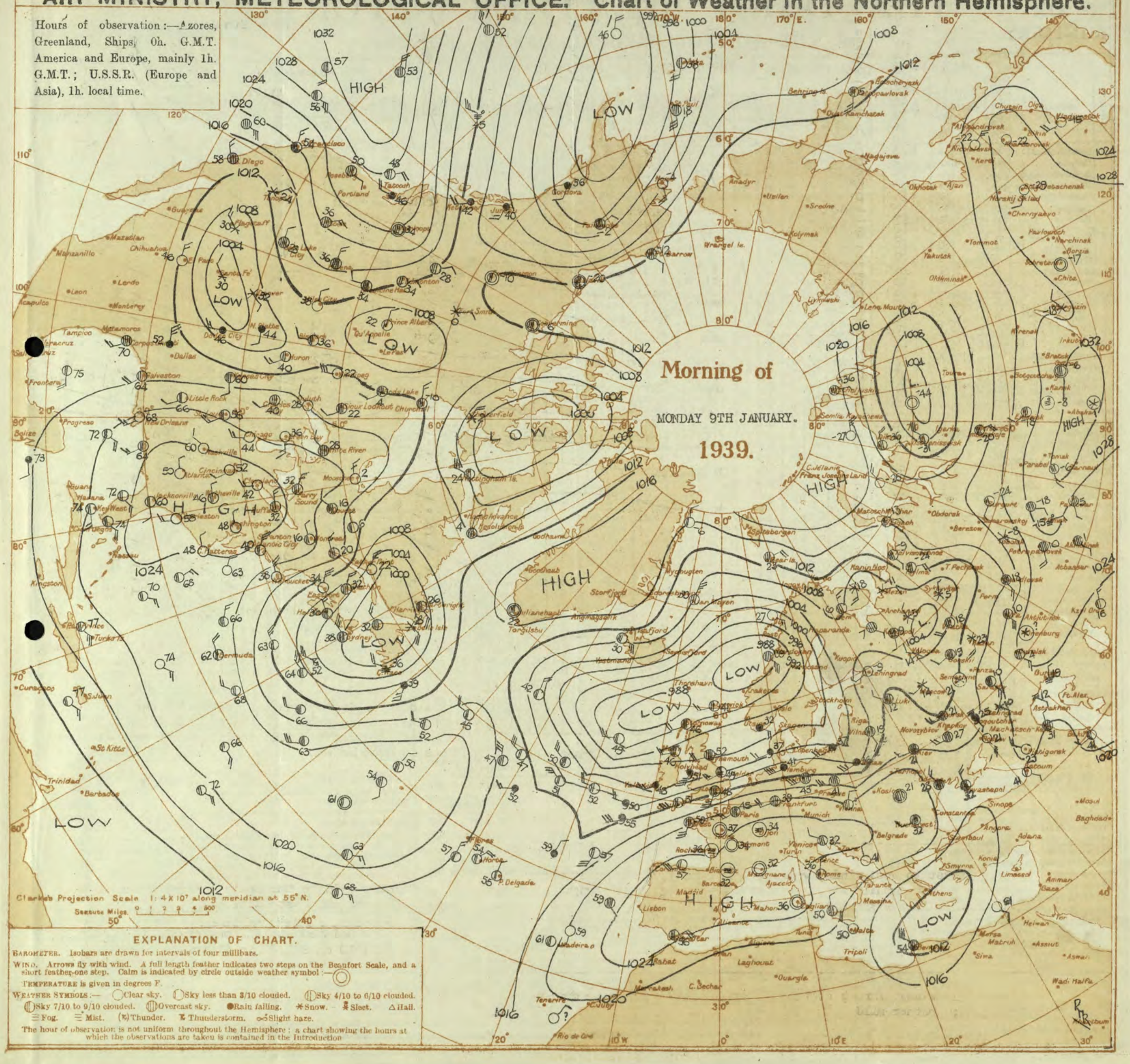
South Cone hoisted at 1515 on 7/1/39. in district 5 and at 1930 on 8/1/39 in districts 1 and 2.

Forecasts issued at 1000 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S
Director.

H.M. Stationery Office Press, Kingsway, W.C.2.

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS :— Clear sky. Sky less than 3/10 clouded. Sky 4/10 to 6/10 clouded. Sky 7/10 to 9/10 clouded. Overcast sky. Rain falling. Snow. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 9th January, 1939.
No. 28172

OBSERVATIONS at 1 hr. G.M.T. 9th January

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1015·0	-10	SW'S	5	c	48	75	7	5	-	-	9	10	2500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1016·9	-12	SW	5	c	46	75	8	5	-	-	10	10	2500
	Manston ...	154	1015·5	-10	SWW	6	c	47	75	7	5	-	-	10	10	2500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1010·4	-8	SW	6	c	47	85	6	-	3	-	0	7-8	-
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1008·7	-22	SW	8	c	49	85	8	8	2	-	7-8	9	1500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1014·7	-10	WSW	5	c	50	92	8	5	2	-	7-8	10	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1013·8	-10	SSW	6	c	51	85	7	8	2	-	7-8	9+	1500
	Scilly (St. Mary's)	163	1011·6	-16	SW	6	bc	51	85	7	4	4	-	2-3	4-6	1500
	Guernsey ..	175	1017·2	-18	SSW	4	o	49	75	6	5	-	-	10	10	2600
6	Pembroke ...	142	1007·1	-16	SW'S	8	cq	50	92	7	5	-	-	9+	9+	1500
7	Holyhead ...	26	1001·4	-22	SW'S	7	d°d°	51	92	6	5	-	-	10	10	450
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1003·9	-8	SW	5	cq	49	85	8	5	1	-	7-8	10	1500
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	998·2	-28	SW	3	o	52	75	7	6	-	-	10	10	800
11	St Abbs Head ..	280	996·6	-20	SW	5	rr	43	85	8	3	2	-	7-8	10	1500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	998·6	-20	NWW	4	DD	47	97	6	-	2	-	10	10	800
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	991·5	-20	SW	4	c	46	85	7	5	2	-	7-8	10	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	991·0	-18	SW	3	c	42	92	7	5	2	-	9	10	1500
16	Lerwick ...	156	988·6	+4	WSW	3	bc	41	92	8	5	7	-	2-3	4-6	1500
17	Blacksod Point	18	998·0	-4	S	5	r°r°	50	92	7	5	-	-	10	10	450
18	Malin Head ...	84	995·9	-16	SW	4	c	46	85	7	4	-	7	2-3	9	2500
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1002·6	+2	SW	3	ir°	48	97	8	5	-	-	10	10	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 9th January — PAST 24 HOURS.

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low. (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 8th Hrs. (36)
London (Kew)	1009·3	-24	SW'S	5	c	49	75	7	5	-	-	9+	9+	1500	1	*	53	48	45	—	Tr	0·2
Croydon	1010·6	-20	SW'S	5	c	48	85	8	5	-	-	9+	10	1500	1	*	54	48	45	Tr	Tr	0·6
S. Farnborough	1010·2	-16	SW	6	c	49	85	6	5	-	-	10	10	1500	1	*	53	47	44	Tr	0·2	1·8
Boscombe Down	1010·2	-8	WSW	5	c	49	85	7	5	-	-	10	10	1500	1	*	53	47	44	Tr	2	0·1
Calshot (Sthmtn.)	1012·7	-16	SW'S	6	c	49	85	8	5	-	-	9	9	2500	1	3	52	47	48	0.2	Tr	0·2
Lympne	1013·7	-10	SW	5	c	46	75	8	5	-	-	10	10	2500	1	§4	49	45	44	0.1	-	0·0
Manston	1011·5	-14	SW	5	c	47	85	7	5	-	-	10	10	2500	1	*	52	47	45	—	Tr	0·2
Shoeburyness	1009·2	-16	SSW	4	bc	46	85	8	5	4	-	2·3	2·3	2500	1	*	52	46	41	—	Tr	2·4
Felixstowe	1008·8	-28	SSW	6	bc	46	85	7	5	4	6	Tr	2·3	2500	1	4	50	44	42	—	Tr	1·0
Gorleston	1006·0	-26	SW'W	5	c	48	75	7	5	4	-	4·6	7·8	2500	1	3	53	46	40	—	-	0·0
Mildenhall	1006·0	-18	SW'S	6	c	49	75	7	5	2	-	7-8	10	2500	1	*	54	46	43	—	-	0·0
Cranwell	1001·8	-14	SW	7	c	50	85	7	5	2	-	9	10	1500	1	*	53	48	*	—	-	0·8
Birmingham	1004·0	-14	SSW	4	c	49	85	7	5	-	-	10	10	1500	1	*	53	48	47	Tr	Tr	0·0
Upper Heyford	1006·8	-16	SW'S	5	c	48	85	7	5	-	-	10	10	1500	1	*	53	47	43	Tr	Tr	*
Ross-on-Wye	1005·1	-30	SW	6	d°d°	49	92	6	-	3	-	9+	9+	800	1	*	54	48	46	Tr	Tr	0·0
Hartland Point	1005·6	-18	SW	8	o	50	85	8	-	2	-	10	10	1500	1	5	51	48	46	1	Tr	0·[illegible]
Bristol	1008·0	-20	WSW	6	c	50	85	8	5	7	-	4-6	9	1500	1	*	54	49	45	Tr	Tr	0·2
Portland Bill	1011·3	-6	WSW	5	c	49	92	8	5	2	-	7-8	10	2500	1	4	51	48	*	—	-	*
Plymouth	1010·7	-12	SSW	5	z°	50	92	6	5	-	-	9+	9+	800	1	4	52	49	47	Tr	0·4	0·0
The Lizard	1010·2	-14	SW	6	c	51	97	7	8	6	-	7-8	9+	1500	1	4	53	49	*	Tr	0·6	1·0
Scilly (St. Mary's)	1008·9	-14	SW'W	6	c	51	92	6	5	7	-	2-3	9+	1500	1	4	53	50	*	Tr	-	1·3
Guernsey	1014·2	-22	SW'S	4	o	49	85	7	5	-	-	10	10	2500	1	4	53	49	47	—	-	0·1
Pembroke	1005·6	+2	W'S	5	c/r	49	92	7	5	-	-	9	9	1500	1	4	52	48	*	0.2	2	0·0
Holyhead	1001·2	+16	SW	4	c	47	92	8	5	7	-	2·3	10	1500	1	3	52	47	45	Tr	5	0·0
Chester (Sealand)	1001·5	+10	WSW	3	rr	47	92	6	-	2	-	10	10	1500	1	*	56	47	45	0.1	1	1·2
Manchester	1001·1	+12	W'N	3	rr	46	97	6	-	2	-	10	10	800	1	*	55	46	45	—	10	0·0
Spurn Head	998·9	-22	SWW	7	cq	49	85	7	6	-	-	9+	9+	1500	0	4	52	48	*	Tr	-	0·3
Catterick	998·2	+22	WNW	3	c/r	45	85	7	5	7	-	10	10	1500	1	*	53	45	43	0.1	1	0·0
Tynemouth	996·7	+4	NW	3	d/r	44	85	7	-	2	-	10	10	1500	1	1	53	43	40	3	4	0·0
St Abbs Head	994·0	-12	SW	5	c	42	85	9	8	6	-	4·6	7·8	2500	1	3	49	41	*	Tr	4	*
Leuchars	992·7	-20	SW	3	c	43	85	7	6	7	-	7-8	9+	1500	1	*	47	41	38	—	1	0·0
Renfrew (Abbots I.)	994·5	-14	SSW	4	c	45	85	7	2	6	-	7-8	7-8	4000	1	*	48	43	40	3	5	0·0
Eskdalemuir	996·0	-2	SW	3	rr	41	92	6	6	-	-	10	10	800	2	*	46	40	39	16	21	0·0
Point of Ayre	998·6	-4	W'S	4	c	45	92	8	8	2	-	7-8	10	1500	1	3	52	44	*	16	19	0·0
Tiree	990·1	-14	SW'W	6	bc	46	85	8	8	-	-	4·6	4·6	1500	0	4	49	43	41	0.4	1	0·0
Stornoway	986·5	-24	SW	4	bc	45	85	8	3	-	-	4·6	4·6	2500	1	2	49	44	*	3	1	0·0
Dalwhinnie	991·9	-6	S	3	RR	37	85	6	4	2	-	4·6	10	1500	1	*	43	37	36	10	15	0·0
Aberdeen	990·6	-14	S	2	c	42	85	6	5	7	-	Tr	9+	4000	1	1	49	41	33	—	-	0·[illegible]
Wick	986·8	-20	SW	3	c	42	92	8	5	4	-	4·6	7·8	1500	1	1	45	39	*	2	-	*
Lerwick	984·8	-26	SW	4	c/r	42	92	7	6	2	-	4·6	10	800	1	*	48	38	*	2	10	0·0
Blacksod Point	997·6	-16	W	5	bc	49	85	7	9	-	-	4·6	4·6	800	1	4	58	46	*	0·1	2	*
Malin Head	994·1	-6	SW	4	r°r°	45	92	6	9	-	-	9+	9+	2500	1	4	49	43	*	0.2	4	0·0
Aldergrove	997·6	-8	SWW	3	b	41	92	7	5	-	-	1	1	1500	1	*	48	41	36	1	9	0·0
Birr Castle	1001·1	-2	SSW	3	c/pr	45	92	8	8	-	-	7-8	7-8	1500	1	*	52	44	37	·13	15	0·0
Valentia Obsy. †	1003·7	+2	SW'W	5	b	48	85	8	8	-	-	1	1	2500	1	4	53	47	44	12	5	0·0
Roches Point	1004·3	+2	W'S	4	c	49	92	8	5	3	-	4·6	7·8	1500	1	4	53	47	*	0.2	2	[illegible]

LONDON OBSERVATIONS

Day 7h—18h, Kew & Croydon. 9h—18h, Kensington. 9h—21h, other stations except for rainfall which is 9h—18h.

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h)	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew	18	c	c	cir°c	53	48	45	—	Tr	0·2	•	•	6
Croydon	217	ccz°	czm°id°	cd°d°c	54	48	45	Tr	Tr	0·6	•	•	7
Greenwich (Royal Observatory)	149	c	cp°c	cd°cbc	54	47	42	Tr	Tr	0·4	78	79	6
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	0·2	•	•	•
Westminster (St. James' Park)	27	•	•	•	54	49	45	Tr			79	82	•
Regents Pk. (Botanic Gardens)‡	168	•	•	•	54	48	46	Tr	Tr	0·2	87	79	•
Camden Square	110	bc	bc	•	53	49	44	-	-		•	81	•
Kensington	80	c	c	•	54	49	42	-	-	0·2	At 18h. 86	77	•
Hampstead Observatory	450	o	od	od	52	45	41	Tr	Tr	0·0	•	85	•

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre. 24 hrs. ended 7h. G.M.T. 9th

South Kensington. Max.	Time.	Min.	Time.
0·3 whole period.			

Kew Observatory. Max.	Time.	Min.	Time.
0·2	17h. 8th.	<0·1	0-5h 9th.

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 8th January Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 9th January Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris	1025·0	SW	3	z°	48	1019·5	SSW	2	c	41	48	41	Tr	-
Brussels	1020·6	SSW	5	o	46	1015·7	WSW	1	c	43	48	43	0·1	-
Berlin	1013·1	WSW	5	r°r°	43	1011·1	WSW	5	c	45	43	41	3	0·2
Zürich	1029·9	SE	1	z°	36	1025·4	SE	2	F	28	39	28	-	-
Rome	1020·7	N	3	bc	43						*	*	-	

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	<1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	> 75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1¼ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6¼ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30.—Code for State of Sea.

0 Calm. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 Precipitous.
4 Rough. 9 Confused.

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY, LONDON, W.C.2. N. K. JOHNSON, M.Sc., A.R.C.S., Director.

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH ~~SECTION~~ ISLES.

Tuesday 10th January, 1939

No. 28173

OBSERVATIONS at 13h. G.M.T. 9th January

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	°Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud. Form. Low (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1007.5	−14	SSW	4	id.	51	85	6	5	–	–	10	10	800
	Croydon ...	1008.6	−10	SW	5	id.	51	85	6	5	–	–	10	10	800
	S. Farnborough	1008.1	−14	SW	4	c/d	51	85	8	5	2	–	9+	10	1500
	Boscombe Down	1008.1	−12	W'S	4	id.	50	92	8	5	2	–	7-8	9+	1500
	Calshot (Sthmtn.)	1010.4	−10	SW	5	c/d	51	85	6	5	–	–	10	10	800
	Lympne ...	1010.9	−14	S'E	5	id.	46	97	6	6	–	–	10	10	220
	Manston ...	1009.1	−14	SW'S	5	id.	48	92	6	5	2	–	9	10	800
2	Shoeburyness ...	1007.5	−20	SW	5	c	49	92	6	5	–	–	10	10	2500
	Felixstowe ...	1006.8	−18	SW'S	5	o	46	85	7	5	–	–	10	10	1500
	Gorleston ...	1004.7	−12	SW'W	4	do.d.	50	92	5	5	–	–	10	10	1500
	Mildenhall ...	1004.6	−8	SW	5	c/d	51	92	7	5	–	–	10	10	1500
	Cranwell ...	1002.9	−6	WSW	4	c	51	85	7	5	7	–	7-8	9+	4000
3	Birmingham ...	1004.8	−2	SW	4	c	49	75	8	6	7	–	4-6	9+	1500
	Upper Heyford	1006.4	−2	SW'W	4	c	49	85	8	5	2	–	1	10	800
4	Ross-on-Wye	1005.8	−6	SW'W	4	c	51	65	8	6	2	–	1	10	2500
5	Hartland Point	1006.9	−6	W	6	rr	48	97	7	6	2	–	7-8	10	800
	Bristol ...	1007.7	+2	SW'W	5	ir.	50	85	7	6	2	–	2-3	9+	1500
	Portland Bill ...	1008.9	−10	SW	6	rr	50	92	7	5	–	–	10	10	800
	Plymouth ...	1010.3	+6	W	3	d.d.	49	92	5	6	2	–	9	10	450
	The Lizard ...	1010.7	−4	W'S	4	pr	49	97	8	5	–	–	10	10	1500
	Scilly (St. Mary's)	1009.8	−8	SW'W	4	c	49	92	8	5	2	–	4-6	9+	1500
	Guernsey ...	1012.3	−14	SW'S	5	c	52	85	7	5	–	–	7-8	7-8	4000
6	Pembroke ...	1006.1	−4	WSW	6	cq	50	85	7	5	2	–	7-8	10	1500
7	Holyhead ...	1001.3	−6	SW'W	5	c	49	85	8	8	9	–	2-3	9	2500
	Chester (Sealand)	1001.7	−10	SW	5	c	52	75	8	5	7	–	7-8	9	4000
8	Manchester ...	1001.2	−12	WSW	5	z.	50	75	6	5	7	–	2-3	9+	2500
10	Spurn Head ...	1000.9	−6	WSW	4	c	48	85	6	5	8	2	4-6	7-8	2500
	Catterick ...	998.3	−12	WSW	5	pr	48	75	8	8	9	–	7-8	7-8	1500
	Tynemouth ...	995.9	−14	WSW	5	bc/pr	49	65	6	2	–	–	4-6	4-6	1500
11	St. Abbs Head ...	991.5	−24	SW	6	bcq	45	75	8	8	6	–	4-6	4-6	1500
	Leuchars ...	990.1	−22	SW	5	ir.	43	92	7	6	7	–	4-6	9+	800
12	Renfrew (Abbots I.)	992.6	−12	WSW	5	pr	44	85	7	9	6	–	9	9+	1500
	Eskdalemuir ...	993.9	−26	SW	6	rr	42	92	6	6	–	–	10	10	800
	Point of Ayre ...	997.6	−10	W	6	c	49	85	8	8	–	9	7-8	9+	1500
13A	Tiree	993.5	−24	NW	5	bc/pr	48	92	8	8	–	–	4-6	4-6	1500
13B	Stornoway ...	989.1	−52	NNW	7	d.d.	39	92	6	5	2	–	9	10	1500
15	Dalwhinnie ...	989.8	−8	SW	4	iR	39	85	6	4	2	–	4-6	9+	2500
	Aberdeen ...	986.0	−32	WSW	5	bc	46	75	8	2	9	3	Tr	2-3	2500
	Wick ...	983.1	−24	SW	4	c/pr	43	92	8	5	7	3	4-6	9+	1500
16	Lerwick ...	982.1	−10	NNW	3	rr	40	92	8	6	2	–	4-6	9+	800
17	Blacksod Point	999.1	+2	W'S	4	c	48	92	7	9	–	–	7-8	7-8	800
18	Malin Head ...	995.4	−18	W	4	c/p	45	85	7	9	–	2	7-8	9	4000
	Aldergrove ...	997.1	+2	W'S	5	c	46	85	8	8	–	–	9+	9+	1500
19	Birr Castle ...	1002.1	+4	SW	4	bc	49	85	8	5	–	–	2-3	2-3	2500
20	Valentia Obsy †	1004.7	−2	WSW	5	c	51	75	8	8	–	–	7-8	7-8	1500
	Roches Point	1005.4	+4	WSW	4	bc	50	85	8	3	4	5	1	4-6	2500

OBSERVATIONS at 18h. G.M.T. 9th January

District	Stations.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	°Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Cloud. Form. Med. (24)	Cloud. Form. High. (25)	Cloud. Amount. Low 0–10 (26)	Cloud. Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1008.1	+4	SSW	4	c	49	85	7	5	–	–	10	10	1500	1	*
	Croydon ...	1008.8	+2	SW'S	4	ir.	49	85	6	–	7	–	0	10	–	1	*
	S. Farnborough	1008.6	+2	SW'S	3	id.	48	85	8	5	2	–	4-6	9+	5700	1	*
	Boscombe Down	1009.0	+6	SW'W	3	c	48	85	7	5	2	–	4-6	10	1500	1	*
	Calshot (Sthmtn.)	1010.6	−2	SW'S	4	id.	47	92	7	5	2	–	10	10	2500	1	2
	Lympne ...	1010.6	+2	SW'W	4	df	47	97	2	–	–	–	10	10	<150	1	§4
	Manston ...	1008.9	+6	WSW	5	do.d.	48	97	6	6	2	–	9	10	1500	1	*
2	Shoeburyness ...	1009.0	+4	SW	3	c	48	85	6	5	–	–	10	10	2500	1	*
	Felixstowe ...	1007.0	+4	SW'S	4	z.	46	85	5	5	–	–	10	10	1500	1	3
	Gorleston ...	1004.8	+4	WSW	4	bc	50	85	6	5	–	–	2-3	2-3	2500	1	3
	Mildenhall ...	1005.4	+20	SW	4	c	49	85	6	5	–	–	10	10	2500	1	*
	Cranwell ...	1003.7	+8	SW	3	z.	46	85	6	5	–	1	1	1	2500	1	*
3	Birmingham ...	1005.3	+2	WSW	3	bc	47	85	8	8	–	–	4-6	4-6	2500	1	*
	Upper Heyford	1007.3	+6	WSW	4	c	47	85	7	5	7	–	9	10	1500	1	*
4	Ross-on-Wye	1006.6	+4	SW	3	c	49	75	8	5	1	–	7-8	9	2500	1	*
5	Hartland Point	1007.7	+4	W	5	c	47	97	8	6	2	–	1	9+	800	1	4
	Bristol ...	1008.3	+2	WSW	4	c/d	48	85	8	5	2	–	4-6	9	1500	1	*
	Portland Bill ...	1010.0	+6	WSW	4	o	48	92	8	5	–	–	10	10	1500	1	4
	Plymouth ...	1010.4	+4	WSW	3	c/r	49	92	7	6	7	–	9	10	1500	1	2
	The Lizard ...	1010.6	+4	SW	4	c	49	97	8	5	–	–	10	10	1500	1	2
	Scilly (St. Mary's)	1010.4	+6	WSW	4	c	49	92	8	5	7	–	2-3	10	2500	1	3
	Guernsey ...	1011.9	+2	SW	4	ro	51	92	6	5	–	–	10	10	1500	1	4
6	Pembroke ...	1006.2	+4	WSW	6	bc	50	85	7	5	4	–	4-6	4-6	1500	1	3
7	Holyhead ...	1001.8	+2	SW	4	b	47	85	8	5	–	–	1	1	4000	1	3
	Chester (Sealand)	1002.6	+6	SW'S	4	b	48	75	8	5	–	–	1	1	2500	1	*
8	Manchester ...	1002.8	+12	SW'S	2	z.	45	85	6	5	3	–	Tr	1	2500	1	*
10	Spurn Head ...	1000.6	0	W'S	4	bc	45	85	6	–	2	–	0	2-3	–	0	3
	Catterick ...	998.8	+8	WSW	5	pr	45	75	8	9	–	3	4-6	4-6	1500	1	*
	Tynemouth ...	996.0	+16	W	5	bc	47	75	6	8	–	–	2-3	2-3	2500	1	2
11	St. Abbs Head ...	994.0	+24	W	7	bcq	42	75	8	4	1	–	Tr	2-3	4000	0	4
	Leuchars ...	993.9	+42	WSW	3	b	39	75	8	8	–	–	Tr	Tr	2500	1	*
12	Renfrew (Abbots I.)	996.6	+24	WSW	3	bc	40	85	7	8	6	–	2-3	4-6	2500	1	*
	Eskdalemuir ...	997.0	+22	WSW	4	c	41	85	7	5	–	–	4-6	10	1500	1	*
	Point of Ayre ...	998.4	+4	W	5	rr	46	85	8	8	–	–	9+	9+	1500	1	3
13A	Tiree	998.0	+24	NNW	5	bc	42	75	8	8	–	–	4-6	4-6	1500	0	4
13B	Stornoway ...	995.8	+40	NW	5	bc	38	75	7	8	–	–	2-3	2-3	1500	1	2
15	Dalwhinnie ...	995.1	+26	SW	2	c	35	85	6	4	2	–	4-6	7-8	2500	1	*
	Aberdeen ...	991.8	+58	NNW	4	ir.	41	85	8	5	–	–	7-8	7-8	1500	1	2
	Wick ...	988.9	+60	WNW	6	pr	38	97	7	5	1	–	7-8	9	1500	1	2
16	Lerwick ...	983.8	+14	N	3	c/r	36	97	8	5	7	–	4-6	7-8	800	2	*
17	Blacksod Point	1001.8	+24	N	4	bc	43	92	7	9	–	–	4-6	4-6	800	1	4
18	Malin Head ...	1001.1	+38	N	4	bc	44	75	7	8	–	–	4-6	4-6	2500	1	3
	Aldergrove ...	999.2	+14	WNW	2	ro	41	92	7	5	2	–	10	10	1500	1	*
19	Birr Castle ...	1001.6	+2	SW	4	c/pr	46	92	8	9	–	–	7-8	7-8	1500	1	*
20	Valentia Obsy †	1006.0	+14	W'S	4	bc/pr	48	92	8	2	–	–	2-3	2-3	1500	1	4
	Roches Point	1006.1	+6	W	5	bc	47	92	8	3	–	–	4-6	4-6	2500	1	4

PAST 24 HOURS.

District	Stations.	Weather. 7h.–18h. 9th. (37)	Weather. 18h.–18h. 9th. (38)	Weather. 18h. 9th. to 1h. 10th. (39)	Weather. 1h.–7h. 10th. (40)
1	London (Kew)	cm.id.	cid.rc	c	c
	Croydon ...	cm.r.d.	d.rrm.	ir.m.c	b,bcc
	S. Farnborough	cid.m.c	cird.cid.	cid.bcc	cbcc
	Boscombe Down	cd.d.cid.	cid.c	cbcaid.c	coid.d.d.
	Calshot (Sthmtn.)	cid.	cd.dcir	cid.r.c	cbcc
	Lympne ...	ccd.m.	prid.	foir.c	bccw
	Manston ...	cbccid.	cid.d.m.	cd.ir.m.	cbcw
2	Shoeburyness ...	bcm.c	cd.m.c	c	cbwcm.
	Felixstowe ...	bcco	orr.m.	om.c	cir.
	Gorleston ...	cd.m.aq	od.m.bc	bcq	bcbc
	Mildenhall ...	coid.c	c	cbc b	b,cbc
	Cranwell ...	circ	ccm.	bm.	bm.x
3	Birmingham ...	pr.c	cpr.bc	bcb	bbcpr.b
	Upper Heyford	cqddr.	c	cpr.b	bccd.c
4	Ross-on-Wye	d.d.qc	cp.c	bcbbc	cbcc
5	Hartland Point	crr	rrir.	cir.bc	cir.
	Bristol ...	cqcdrd.	cr.d.	cbcc R	cbccp.
	Portland Bill ...	c	opr	c	c
	Plymouth ...	id.ddid.	d.d.mirc	cbcc	cbcm.
	The Lizard ...	cpr.	prc	c	cprc
	Scilly (St. Mary's)	cr.rc	circ	cbcc	cw
	Guernsey ...	oc	cor.	or.rr	oiror
6	Pembroke ...	cpcq	qbc	bccq	cbc
7	Holyhead ...	c	cb	cprPR	bbc,w
	Chester (Sealand)	rrm.c	c,b	bcprm.	c,bx
8	Manchester ...	cm.rrm	cz.bcz.	bm.bccpr	cbcbxm.
10	Spurn Head ...	Rqc	cqbc	bqc	cb
	Catterick ...	r.bcpr.	bcpr.	cPRbc	bcb
	Tynemouth ...	ocbcp.	bc	bcoir.bc	bcb
11	St. Abbs Head ...	bccq	bcbq	bq	bq
	Leuchars ...	prrrrr	cir.bcb	bx	bxv
12	Renfrew (Abbots I.)	rrpr.	cpcm.bc	bc	bc
	Eskdalemuir ...	cofr	orrc	cprbcb	bbx
	Point of Ayre ...	cbccq	cprc	crrbc	b
13A	Tiree	cprbc	bcpr.	bcpr.	bc
13B	Stornoway ...	cbccpr	cPHRq	cPHRq	bcPHRq
15	Dalwhinnie ...	ciR	ciR	•	ciso
	Aberdeen ...	cbcb	bcr.	prbbx	bx
	Wick ...	bccpr	crrpr	pspsh	cpsbc
16	Lerwick ...	crr	cmrsrr	crrphr	cphpsq
17	Blacksod Point	phrcq	PRcq	bc	bc
18	Malin Head ...	cPH,pr	circ	cphybc	bcc
	Aldergrove ...	b.cpbc	pr.cr.r	r.r.c,bx	bxb
19	Birr Castle ...	cprbc	bccpr	cprc	cbxff
20	Valentia Obsy †	bbccpr	prpr	bccprbc	bc
	Roches Point	cbc	cpr.bc	bc	bcw

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s_o, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s_o/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
⊕, Solar halo. ☽ lunar halo. Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. „ wet.
2 .. „ flooded.
3 .. „ frozen hard and dry.
4 .. „ partly covered with snow or hail.
5 .. „ covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. „ covered with snow, less than 6 ins., deep but ground not frozen.
8 .. „ covered with snow, less than 6 ins., but ground frozen
9 .. „ covered with snow greater than 6 ins. deep.

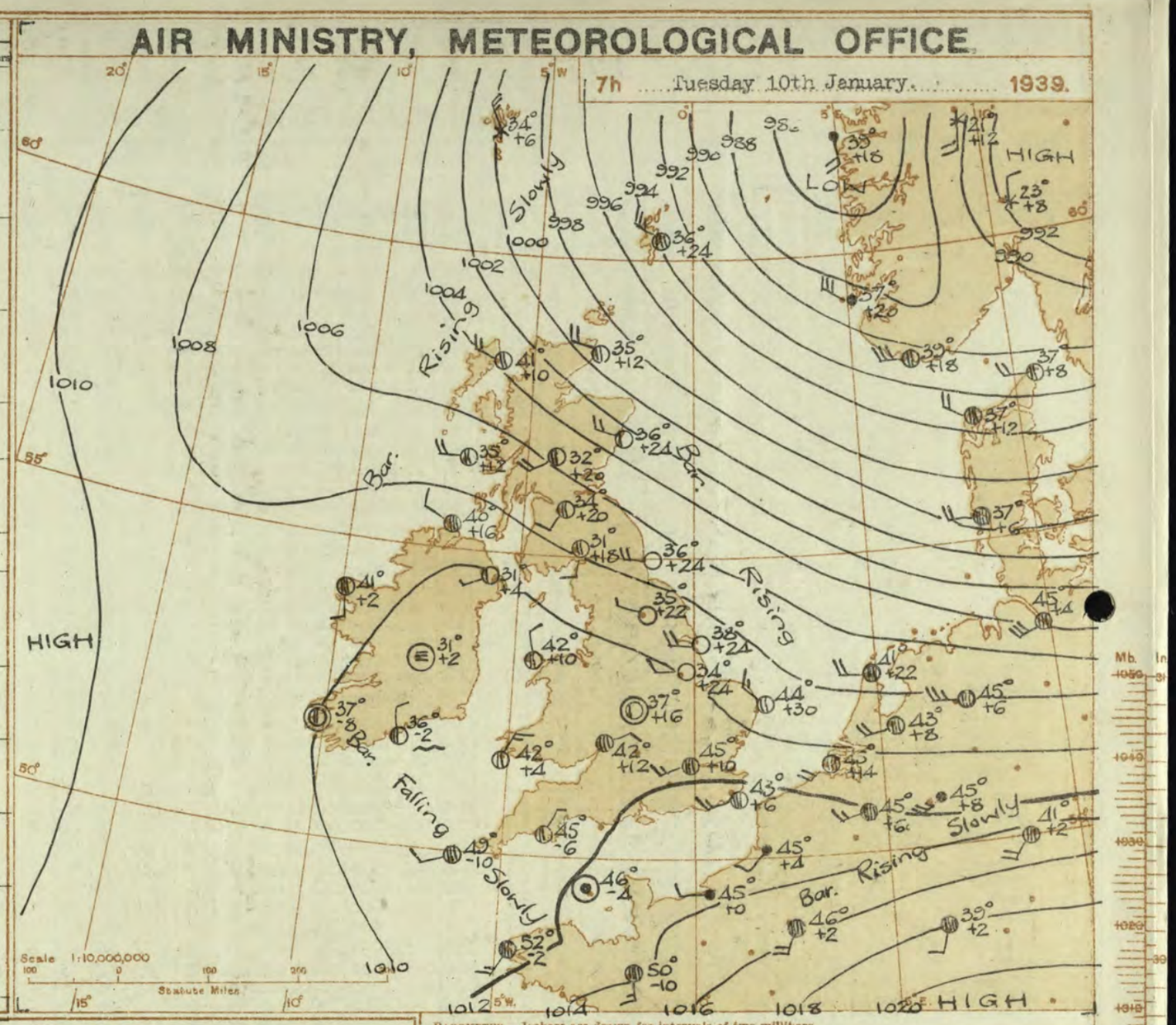
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2*

† Sea disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 9th January, 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F.) Min. 9h. 8th to 9h. 9th	Temperature. (°F.) Max. 9h.—17h. 9th	Rainfall. (mm.) Night. 17h. 8th to 9h. 9th	Rainfall. (mm.) Day. 9h.—17h. 9th	Sunshine (hrs) Sunrise to Sunset. 9th.
1	Tunbridge W.	ood	oor	46	49	Trace	1	0.0
	Bournemouth	o	ors	49	52	Trace	0.5	0.0
	Ventnor ...	ocou	oud	47	50	—	1	0.1
	Southsea ...	c	cor	48	52	—	0.4	0.0
	Bognor Regis	obcco	old	47	49	Trace	1	0.1
	Littlehampton	c	cor	47	50	0.2	1	0.0
	Worthing ...	o	od	47	49	—	0.5	0.0
	Brighton ...	c	cod	47	49	Trace	0.3	0.0
	Eastbourne† ...	co	ors.o	48	51	—	0.2	0.0
	Hastings† ...	o	od.d	46	49	—	Trace	0.0
	Folkestone ..	ood.o	oido	46	49	—	Trace	0.0
	Dover ...	oido	od	46	49	—	Trace	0.0
	Deal	o	o	47	50	—	—	0.0
	Ramsgate ...	co	o	47	51	—	—	0.4
	Margate ...	cbc	cd.	47	52	—	Trace	0.8
2	Southend ...	c	cordo	46	48	—	0.3	0.0
	Clacton-on-Sea	c	cdr.	43	45	—	0.1	0.0
	Dovercourt ...	oc	doc	45	50	—	3	0.0
	Lowestoft ...	cqprc	cd.c	47	51	—	0.1	0.0
	Skegness ...	ocbr.	oco	45	51	2	—	0.0
	Mablethorpe...	opbcc	pcc	47	52	—	0.3	0.0
	Cleethorpes ...	robc	bc	47	50	1	Trace	0.8
3	Leamington S.	odro	o	49	50	—	1	0.0
4	Cheltenham†	oid.c	co	48	52	Trace	0.3	0.0
5	Bath	crc	cp.	50	53	Trace	0.5	0.0
	Weymouth ...	c	cdc	49	52	—	1	0.0
	Jersey ...	co	cbcc	47	52	—	—	1.5
	Torquay ...	oqd.pd	d.pgo	49	52	0.2	0.1	0.0
	Falmouth	qorcc	c	49	52	1	1	0.0
	Penzance ..	odod	oid	50	51	2	1	0.0
	St. Ives ...							
	Bude... ...	o	oc	49	50	0.5	—	0.0
	Ilfracombe ...	codo	ocpo	48	51	0.3	Trace	0.0
6	Aberystwyth	idc	c	45	50	1	—	0.0
7	Llandudno ...	c	cbcb	45	50	7	—	1.0
	Colwyn Bay...	cbc	bcb	46	51	7	—	1.0
	Rhyl	cbc.	bcb	46	52	6	—	1.2
8	Wallasey ...	c	cbcb	44	51	2	—	1.6
	Southport ...	cbcc	cbcb	44	48	3	—	0.6
	Blackpool ...	cm.	cbcm	44	48	2	—	0.2
	Morecambe ...	obc	bcr.	48	52	3	1	0.2
9	Ilkley... ...	rod.o	od.	44	48	10	0.5	0.0
	Harrogate ...	cbcpq	cbpq	43	47	3	0.4	0.1
.0	Berwick-on-T.	pcb	crb	41	47	5	1	3.9
11	Dunbar ...	bc	cpr.	42	48	3	0.3	3.7
12	Troon... ...	coror	opocq	45	47	8	2	0.2
	Douglas ...	cfD	bcpr.	44	48	14	Trace	0.7

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	Forecasts for the 24 hours commencing 12 noon, G.M.T. 10th January, 1939.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Light westerly to variable winds; mainly fair, but some drizzle or rain, particularly near south coast; local fog forming at night; average day temperature, chance ground frost at night.
4 W. Midlands ... 5 S.W. England	Light to moderate northwesterly to variable winds; bright periods; fog forming at night; average day temperature; night frost.
6 South Wales ... 7 North Wales ...	Light variable winds, freshening from south; fair at first, some rain or drizzle later; local fog on coast and inland in morning; average temperature.
8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	As 2 - 3.
13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Light to moderate northwest to north winds; bright periods; a few local wintry showers; rather cold with frost at night.
17 N. W. Ireland 18 N. E. Ireland	As 2 - 3.
19 S. E. Ireland 20 S. W. Ireland	Light variable winds, freshening from southeast to south; fair at first, occasional rain or drizzle later with local fog on coasts; average temperature.

GENERAL INFERENCE.

A depression over Southern Norway is decreasing in intensity and another is developing to the southwest of Ireland. Weather at first, apart from a few scattered wintry showers in West and North Scotland, will be mainly fair but later there will be some rain or drizzle in Southwest England and Southern Ireland.

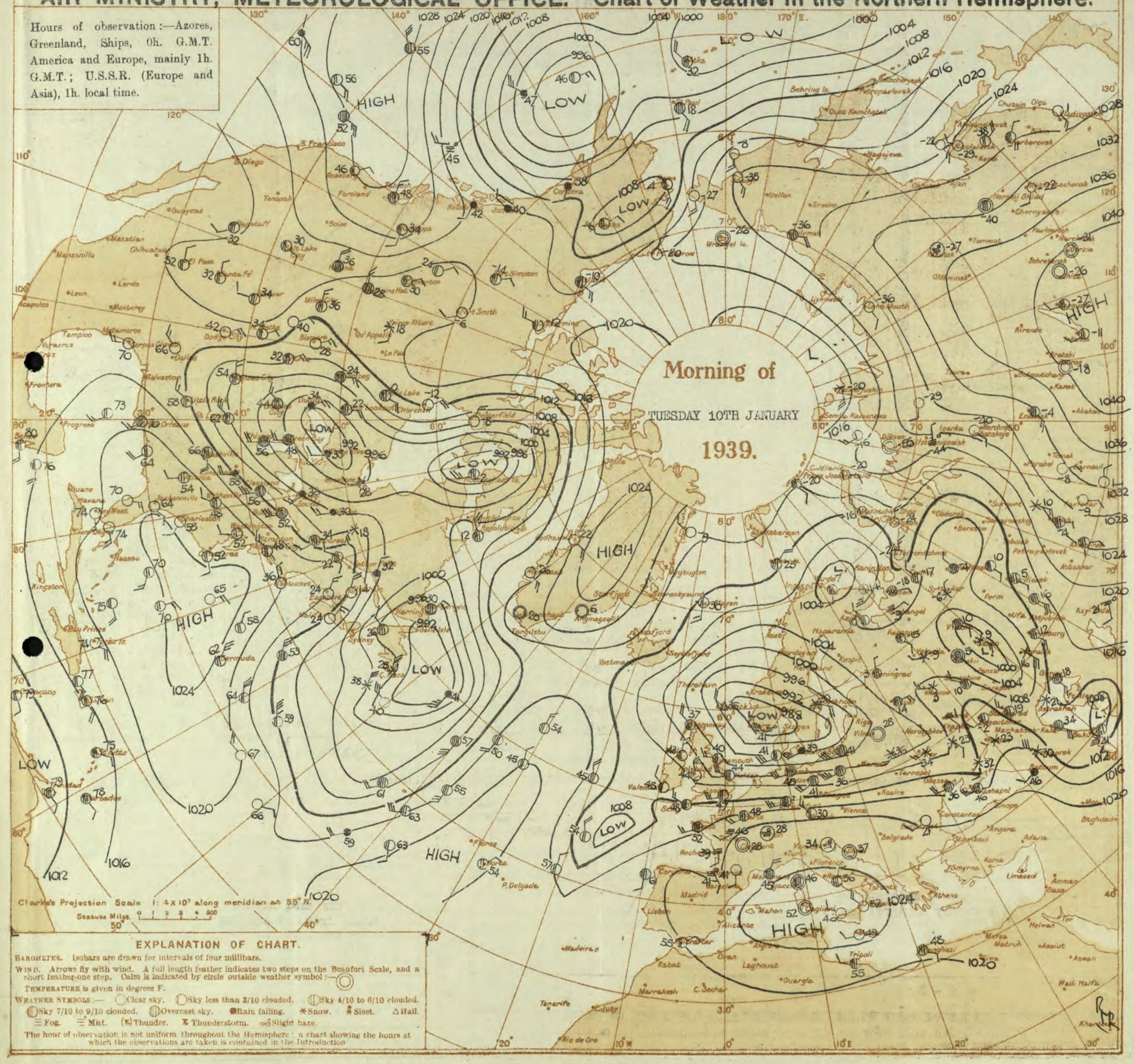
FURTHER OUTLOOK.

Mainly fair and rather cold in Northern Scotland; local drizzle and fog with average temperature in the South.

Forecasts issued at 1000 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S.
Director.

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 10th January 1939
No. 28173

OBSERVATIONS at 1 hr. G.M.T. 10th January

Dist.	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1009·8	+6	SW'W	5	bc	47	85	8	5	4	–	1	2·3	1500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1011·3	+2	SW'W	4	c	44	97	8	5	7	–	7·8	9	800
	Manston ...	154	1009·7	+4	SW	4	c	45	92	7	–	3	–	0	9	–
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1005·5	+4	W'S	4	bc	43	85	8	5	–	–	2·3	2·3	2500
	Mildenhall ...	19	1006·4	+6	SW	5	b	45	85	7	–	7	–	0	Tr	–
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1009·6	+6	WSW	5	c	47	92	8	5	–	–	9+	9+	1500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1010·6	+4	W	4	c	48	85	8	2	–	–	7·8	7·8	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1011·8	+4	W'S	4	c	49	92	8	8	1	–	7·8	9+	1500
	Scilly (St. Mary's)	163	1011·8	+2	W'N	3	c	48	92	7	5	3	–	2·3	7·8	2500
	Guernsey ..	175	1012·9	+2	WSW	1	o/r	47	97	9	5	–	–	10	10	2500
6	Pembroke ...	142	1008·9	+14	W	5	cq	49	85	7	8	–	–	7·8	7·8	1500
7	Holyhead ...	26	1007·0	+4	NNW	4	b	44	75	8	5	–	–	1	1	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1002·3	+6	W'N	6	c	44	85	6	5	–	–	9+	9+	1500
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1001·4	+34	W	3	bc	40	65	7	2	–	–	2·3	2·3	2500
11	St Abbs Head ..	280	999·9	+30	W	7	b	38	65	8	–	–	–	0	0	–
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1005·5	+44	NNW	4	b	43	97	8	–	4	4	0	Tr	–
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1001·3	+20	NW	4	c/phr	37	85	7	3	–	–	7·8	7·8	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	995·6	+20	WNW	5	psh	36	97	7	8	7	8	4·6	7·8	1500
16	Lerwick ...	156	989·2	+26	NW	4	phr	35	92	7	9	2	–	4·6	10	800
17	Blacksod Point	18	1009·4	+14	W	2	bc	38	92	8	2	–	–	2·3	7·3	2500
18	Malin Head ...	84	1006·6	+28	N	3	bc	43	75	8	–	5	–	0	4·6	–
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1009·7	+6	NW	1	bc	45	97	8	1	–	4	1	4·6	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 10th January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1011·3	+14	SW	2	c	43	85	7	5	–	–	9+	9+	1500	1	*
Croydon ...	1011·0	+10	WSW	3	c	45	85	8	–	3	2	0	9+	–	1	*
S. Farnborough	1011·2	+14	WSW	2	c	44	85	8	5	–	–	9	9	4000	1	*
Boscombe Down	1011·5	+12	–	0	dd	42	97	6	5	2	–	9+	10	1500	1	*
Calshot (Sthmtn.)	1012·4	+4	SW'W	3	c	45	92	7	–	7	8	0	7·8	–	1	2
Lympne ...	1012·6	+6	W'S	3	c	43	97	7	–	7	–	0	7·8	–	1	§3
Manston ...	1011·2	+10	WSW	3	c	42	92	7	–	7	–	0	7·8	–	1	*
Shoeburyness ...	1010·9	+12	WSW	2	c	44	92	6	5	3	–	4·6	7·8	4000	1	*
Felixstowe ...	1010·5	+16	WSW	3	ir	44	92	7	5	2	–	7·8	9+	1500	1	3
Gorleston ...	1009·6	+30	NW'W	3	bc	44	85	7	4	–	–	4·6	4·6	2500	1	3
Mildenhall ...	1009·9	+22	W'N	2	bc	45	75	8	5	–	–	4·6	4·6	4000	1	*
Cranwell ...	1010·3	+24	W	2	zo	34	97	6	5	–	–	Tr	Tr	2500	1	*
Birmingham ...	1011·3	+16	–	0	b	37	85	8	–	–	1	0	1	–	1	*
Upper Heyford	1011·4	+22	N	3	c	41	75	8	5	–	8	7·8	9	2500	1	*
Ross-on-Wye	1010·9	+12	E'N	2	c	42	75	8	5	–	–	9+	9+	4000	1	*
Hartland Point	1010·4	+4	WNW	3	c	46	97	8	3	4	6	1	7·8	2500	1	3
Bristol ...	1011·0	+2	W	1	zo	44	92	6	8	7	8	4·6	4·6	1500	1	*
Portland Bill ...	1011·4	+2	W	3	c	47	85	7	5	–	–	7·8	7·8	2500	1	3
Plymouth ...	1011·2	–6	NE	1	zo	45	92	6	5	1	–	4·6	4·6	4000	1	1
The Lizard ...	1011·2	–6	SW'W	3	c	48	97	8	8	2	–	7·8	9+	1500	1	2
Scilly (St. Mary's)	1010·7	–10	WSW	2	c	49	97	7	5	1	–	2·3	10	2500	1	2
Guernsey ..	1012·7	–4	–	0	rr	46	97	6	5	–	–	10	10	1500	1	3
Pembroke ...	1010·7	+4	NE	3	bc	42	92	7	5	4	–	2·3	4·6	1500	1	2
Holyhead ...	1010·2	+10	N'W	2	bc	42	75	8	1	–	4	Tr	2·3	2500	1	2
Chester (Sealand)	1010·9	+18	W'N	1	b	34	92	7	5	–	–	Tr	Tr	4000	1	*
Manchester ...	1010·4	+20	W	1	zo	31	85	6	–	3	–	0	Tr	–	3	*
Spurn Head ...	1008·4	+24	W'N	4	b	38	85	6	–	–	–	0	0	–	0	3
Catterick ...	1008·7	+22	WNW	1	b	35	75	8	–	4	–	0	Tr	–	3	*
Tynemouth ...	1006·9	+24	W	4	b	36	75	7	–	–	–	0	0	–	1	2
St Abbs Head ..	1005·4	+24	W	7	bq	38	65	8	–	–	–	0	0	–	0	4
Leuchars ...	1005·3	+26	W	3	b	35	75	9	–	–	–	0	0	–	3	*
Renfrew (Abbots I.)	1007·7	+20	SW	2	bc	34	85	8	4	6	–	2·3	4·6	2500	3	*
Eskdalemuir ...	1008·5	+18	S'W	2	bc	31	92	8	5	–	–	2·3	2·3	1500	3	*
Point of Ayre...	1009·3	+18	NW'W	3	b	41	85	8	5	–	–	Tr	Tr	2500	1	2
Tiree	1007·3	+10	NW'W	4	bc	41	75	8	2	–	–	4·6	4·6	2500	0	3
Stornoway ...	1004·6	+12	W	4	bc	35	85	7	8	–	–	4·6	4·6	2500	1	2
Dalwhinnie ...	*	+20	SW	4	bc	32	92	8	4	6	1	2·3	2·3	4000	4	*
Aberdeen ...	1002·5	+24	WNW	4	b	36	75	8	2	–	–	Tr	Tr	2500	3	3
Wick ...	999·7	+12	WNW	4	bc	35	85	8	5	7	–	2·3	4·6	1500	4	2
Lerwick ...	993·2	+24	NW	5	c/ph	36	85	7	9	2	–	4·6	10	800	4	*
Blacksod Point	1009·9	+2	S	2	c	41	92	8	3	–	–	7·8	7·8	2500	0	2
Malin Head ...	1008·7	+16	NW	2	c	40	75	7	8	8	–	2·3	7·8	4000	0	3
Aldergrove ...	1010·3	+4	SW'W	1	b	31	97	7	5	–	–	Tr	Tr	2500	1	*
Birr Castle ...	1010·3	+2	–	0	bf	31	97	3	–	–	–	0	0	–	1	*
Valentia Obsy. †	1010·0	–8	–	0	bc	37	85	8	8	–	8	1	2·3	2500	1	3
Roches Point	1010·7	–2	N	2	bc	36	97	8	–	–	6	0	4·6	–	1	4

PAST 24 HOURS.

Stations	Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F. (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine Yesterday Hrs. (36)
London (Kew)	51	42	38	0.5	–	0·0
Croydon ...	52	45	43	2	Tr	0·0
S. Farnborough	51	42	38	1	Tr	0·0
Boscombe Down	51	41	37	0.1	0·1	0·0
Calshot (Sthmtn.)	52	41	41	1	0·1	0·1
Lympne ...	48	42	37	Tr	0·6	0·0
Manston ...	51	41	38	0.3	0·3	0·5
Shoeburyness ...	50	41	35	Tr	–	0·0
Felixstowe ...	47	42	39	0.4	Tr	0·0
Gorleston ...	51	42	40	0.1	–	0·0
Mildenhall ...	53	42	38	0.1	–	0·0
Cranwell ...	51	32	27	Tr	–	0·0
Birmingham ...	50	37	27	0.4	0·4	0·0
Upper Heyford	50	41	36	1	Tr	*
Ross-on-Wye	52	41	35	0.2	–	0·7
Hartland Point	50	45	45	1	1	0·0
Bristol ...	51	43	38	1	1	0·0
Portland Bill ...	*	*	*	0.5	–	*
Plymouth ...	50	46	*	0.5	–	*
The Lizard ...	51	44	42	1	Tr	0·0
Scilly (St. Mary's)	51	47	*	1	0·5	0·0
Guernsey ..	52	47	*	1	Tr	0·0
Pembroke ...	53	46	45	Tr	5	0·1
Holyhead ...	50	41	*	Tr	–	0·0
Chester (Sealand)	50	41	35	—	2	0·7
Manchester ...	53	33	26	0.1	1	2·2
Spurn Head ...	50	30	22	0.5	1	0·4
Catterick ...	49	37	*	1	–	1·0
Tynemouth ...	48	35	28	0.1	3	0·2
St Abbs Head ..	49	35	31	Tr	0·3	4·3
Leuchars ...	46	36	*	1	–	*
Renfrew (Abbots I.)	45	34	30	2	–	2·2
Eskdalemuir ...	46	32	23	4	–	0·2
Point of Ayre...	44	31	27	4	0·4	0·0
Tiree	49	40	*	0.1	8	1·4
Stornoway ...	46	38	34	1	0·1	1·3
Dalwhinnie ...	45	35	*	3	2	0·3
Aberdeen ...	40	31	25	10	–	0·3
Wick ...	47	35	30	0.1	Tr	4·6
Lerwick ...	45	33	*	1	5	*
Blacksod Point	50	37	*	9	–	*
Malin Head ...	46	37	*	7	0·2	0·7
Aldergrove ...	46	31	22	2	1	1·7
Birr Castle ...	49	30	25	2	0·4	3·8
Valentia Obsy. †	52	36	30	0.5	0·2	3·3
Roches Point	51	35	*	0.3	Tr	*

LONDON OBSERVATIONS

Day 7h.—18h. Kew & Croydon
9h.—18h. Kensington.
9h.—21h. other stations except for rainfall which is 9h.—18h.

	Height above M.S.L. in feet.	Weather Morning.	Weather Afternoon.	Weather Night.	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day. mm.	Rainfall Night. mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 16h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
		* 24 hrs. ended 9h.											
Kew ...	18	cm id	cid rc	c	51	42	38	0·5	–	0·0	*	*	4
Croydon ...	217	cm rd	drrm	irm c	52	45	43	2	Tr	0·0	*	*	5
Greenwich (Royal Observatory) ...	149	c	cir c	cbcm	52	43	38	0·3	–	0·0	84	89	4
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*	0·0	*	*	*
Westminster (St James' Park) ...	27	*	*	*	52	44	39	0·3			85	76	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*	51	43	41	1	Tr	0·0	86	83	*
Camden Square ...	110	c	o	*	51	43	40	1	–	*	*	71	*
Kensington ...	80	c	c	*	52	44	38	0·5	Tr	0·0	84	81	*
Hampstead Observatory ...	450	od	o	bcod	50	40	37	0·2	Tr	0·0	*	83	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 10th

South Kensington. Max.	Time.	Min.	Time.
0·3	18-20h 9th	<0·3	4-6h 10th

Kew Observatory. Max.	Time.	Min.	Time.
0·2	17h 9th	<0·1	0-5h 10th

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 9th January Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 10th January Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris ...	1016·9	SSW	3	zo	45	1015·5	SSW	4	zo	46	45	43	–	–
Brussels ...	1012·2	SW	4	o	46	1012·5	WSW	3	o	45	46	45	–	11
Berlin ...	1007·4	SSW	5	o	37	1007·0	SW	4	c	41	45	37	–	Tr
Zurich ...	022·2	SSE	1	bf	30	1022·4	E	1	bcf	25	36	25	–	–
Rome ...	1023·9	E	1	b	46	1022·6	E	3	bc	34	*	*	–	–

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying with the different numbers is the speed at about 30 feet above the ground.

Beaufort No	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	<1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	> 75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1½ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6½ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m

COLUMN 30.—Code for State of Sea.

0 Calm.	5 Very rough
1 Smooth.	6 High.
2 Slight.	7 Very high
3 Moderate.	8 Precipitous.
4 Rough.	9 Confused.

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY, LONDON, W.C.2.

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

† hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 11th January, 1939

No. 28174

OBSERVATIONS at 13h. G.M.T. 10th January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Amount Low 0–10 (12)	Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1011·4	-14	NNE	2	m	46	45	4	5	-	-	10	10	2500
	Croydon	1011·7	-10	ESE	2	zo	46	75	5	5	7	-	2-3	10	5700
	S. Farnborough	1011·0	-14	E'S	2	c	46	85	6	5	7	-	9	10	2500
	Boscombe Down	1010·7	-16	E	2	zo	44	97	6	5	-	-	10	10	450
	Calshot (Sthmtn.)	1011·7	-10	EN	2	zo	45	92	6	5	7	-	Tr	10	2500
	Lympne	1012·8	-6	SW	1	zo	44	92	5	5	7	-	4-6	10	5700
	Manston	1012·2	-6	N	2	c	44	75	6	5	7	6	4-6	9+	5700
2	Shoeburyness	1011·8	-6	N	1	c	46	75	8	5	7	-	7-8	9+	4000
	Felixstowe	1012·1	+2	NWW	2	c	43	75	7	5	7	7	2-3	9+	4000
	Gorleston	1011·7	0	WN	2	c	44	65	6	-	7	-	0	7-8	-
	Mildenhall	1011·4	-6	WSW	1	zo	40	75	6	-	7	6	0	9	-
	Cranwell	1011·5	0	WN	2	m	39	85	4	-	2	6	0	7-8	-
3	Birmingham	1011·1	-6	NNE	1	cf	40	75	3	-	7	-	0	7-8	-
	Upper Heyford	1011·9	-8	E	1	c	41	75	7	5	-	-	4-6	9+	4000
4	Ross-on-Wye	1010·6	-10	EN	2	zo	43	65	6	5	-	-	10	10	2500
5	Hartland Point	1008·8	-20	S	2	c	47	97	7	6	1	-	1	10	1500
	Bristol	1010·6	-12	E	2	ido	45	92	2	5	2	-	7-8	10	450
	Portland Bill	1009·5	-16	S	2	ido	47	92	8	5	2	-	7-8	10	1500
	Plymouth	1009·8	-14	SSE	2	dodo	45	92	6	6	2	-	7-8	10	1500
	The Lizard	1008·9	-24	ESE	2	pr	45	97	7	5	-	-	10	10	1500
	Scilly (St. Mary's)	1008·1	-24	SE'S	2	roro	46	85	7	5	2	-	2-3	10	1500
	Guernsey	1009·9	-26	SE	1	m/r	49	92	4	5	-	-	10	10	800
6	Pembroke	1009·5	-12	ENE	2	c	45	85	6	5	-	-	9+	9+	1500
7	Holyhead	1010·0	-12	SSE	1	c	41	85	8	1	-	7	Tr	7-8	2500
	Chester (Sealand)	1011·2	-6	-	0	m	40	85	4	-	-	7	0	9	-
8	Manchester	1011·5	0	SSW	1	cF	36	92	3	-	-	6	0	7-8	-
10	Spurn Head	1010·5	+4	WNW	3	c	40	85	6	-	5	8	0	7-8	-
	Catterick	1009·9	-2	W	2	b	43	65	8	-	-	5	0	1	-
	Tynemouth	1008·8	+4	W	3	bc	39	65	6	5	4	-	2-3	2-3	1500
11	St. Abbs Head	1007·3	+2	W	6	bq	39	55	8	-	1	-	0	Tr	-
	Leuchars	1007·4	+2	WSW	3	b	41	65	8	-	4	-	0	Tr	-
12	Renfrew (Abbots I.)	1009·3	+2	SW	2	b	43	65	8	4	-	-	1	1	4000
	Eskdalemuir	1009·3	0	SW	2	bc	38	75	7	5	-	1	2-3	2-3	1500
	Point of Ayre	1010·1	+2	S	1	bc	48	75	8	2	-	-	2-3	2-3	4000
13A	Tiree	1008·2	0	NNW	1	c	41	85	8	8	-	-	7-8	7-8	1500
13B	Stornoway	1006·8	0	W	3	bc	40	75	8	8	-	-	4-6	4-6	2500
15	Dalwhinnie	1007·4	+4	W	4	bc	36	75	8	4	6	1	2-3	4-6	2500
	Aberdeen	1005·6	+8	NWN	3	b	39	65	7	8	-	-	Tr	Tr	2500
	Wick	1002·9	+4	W	4	prs	36	92	8	5	7	8	2-3	7-8	1500
16	Lerwick	996·3	+4	NW	5	c	36	85	8	8	7	1	4-6	7-8	1500
17	Blacksod Point	1008·0	-12	SSE	3	c	43	85	8	4	3	-	9+	9+	4000
18	Malin Head	1009·1	-2	S	1	c	40	85	8	5	-	6	2-3	7-8	5700
	Aldergrove	1009·9	-10	W	1	c	41	65	7	-	3	-	0	7-8	-
19	Birr Castle	1009·9	-18	ESE	1	b	35	97	7	-	-	-	0	0	-
20	Valentia Obsy. †	1007·5	-20	-	0	bc	45	85	8	8	4	1	4-6	4-6	2500
	Roches Point	1008·3	-20	E	3	c	44	85	8	5	1	-	4-6	9	1500

OBSERVATIONS at 18h. G.M.T. 10th January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Amount Low 0–10 (26)	Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1009·9	-6	ENE	2	roro	44	75	5	5	-	-	10	10	1500	1	*
Croydon	1010·9	-10	E	2	ido	43	85	4	6	2	-	7-8	10	2500	1	*
S. Farnborough	1009·4	-8	EN	2	ror	42	85	4	5	-	-	10	10	800	1	*
Boscombe Down	1008·5	-16	ESE	2	ror	43	97	5	6	2	-	4-6	10	800	1	*
Calshot (Sthmtn.)	1009·8	-10	E	3	roro	45	92	4	5	-	-	10	10	1500	1	2
Lympne	1011·7	-6	E	3	iro	43	92	5	6	7	-	4-6	10	4000	1	§ 2
Manston	1011·1	-6	E'S	2	zo	43	85	6	5	7	-	4-6	9+	5700	1	*
Shoeburyness	1010·9	-8	E	2	ido	42	85	6	5	-	-	10	10	4000	1	*
Felixstowe	1011·6	-6	SSW	2	zo	39	92	5	5	2	7	Tr	10	4000	1	1
Gorleston	1011·7	0	SW'S	1	c	38	85	5	5	-	-	7-8	7-8	1500	0	1
Mildenhall	1010·8	-6	ESE	2	zo	36	85	5	-	7	-	0	10	-	1	*
Cranwell	1010·8	-2	-	0	m	31	97	4	-	-	-	0	0	-	1	*
Birmingham	1009·7	-10	E	2	c	40	75	5	-	2	-	0	10	-	1	*
Upper Heyford	1010·1	-12	E	1	iro	39	75	6	-	2	-	10	10	2500	1	*
Ross-on-Wye	1008·9	-10	EN	2	iro	40	75	6	5	-	-	10	10	1500	1	*
Hartland Point	1004·7	-26	ENE	4	roro	43	92	7	6	2	-	4-6	10	800	1	3
Bristol	1008·0	-18	E	1	roro	43	97	5	6	2	-	7-8	10	450	1	*
Portland Bill	1006·5	-24	E	2	rr	47	92	7	5	-	-	10	10	1500	1	3
Plymouth	1005·4	-26	NNE	2	ir	45	92	6	5	-	-	9+	9+	1500	1	1
The Lizard	1003·2	-34	SE'E	4	S/pr	49	97	7	8	2	-	9	10	1500	1	3
Scilly (St. Mary's)	1001·0	-40	SE'E	4	pr	49	97	6	6	2	-	7-8	10	1500	1	2
Guernsey	1007·2	-14	S	1	o/r	50	92	6	5	-	-	10	10	2500	1	2
Pembroke	1005·9	-14	SE'S	4	roro	44	85	7	8	2	-	7-8	9+	1500	1	2
Holyhead	1007·3	-18	EN	3	c	39	85	8	5	-	8	Tr	7-8	2500	1	2
Chester (Sealand)	1009·2	-12	-	0	cf	36	92	3	-	-	8	0	10	-	1	*
Manchester	1008·9	-8	NEE	1	F	33	97	0	-	-	-	10	10	<150	1	*
Spurn Head	1010·4	0	WNW	1	b	36	92	6	-	-	-	0	0	-	1	1
Catterick	1008·7	0	-	0	zo	30	92	6	-	-	-	0	0	-	3	*
Tynemouth	1009·2	0	W	3	bc	37	85	5	2	-	-	2-3	2-3	1500	1	1
St. Abbs Head	1007·7	0	W	4	bc	37	75	6	4	4	-	1	2-3	2500	0	3
Leuchars	1008·0	+6	W	2	bc	33	85	7	-	3	-	0	4-6	-	3	*
Renfrew (Abbots I.)	1008·9	-2	-	0	zo	32	92	6	4	-	-	1	1	4000	1	*
Eskdalemuir	1009·5	-2	-	0	b	27	92	7	5	-	-	Tr	Tr	1500	3	*
Point of Ayre	1008·5	-4	SE	2	bc	37	92	7	-	4	-	0	2-3	-	1	1
Tiree	1007·5	-2	N'E	2	bc	38	92	8	8	-	-	4-6	4-6	1500	0	2
Stornoway	1006·6	0	WSW	3	b	33	85	7	8	-	3	1	1	2500	1	2
Dalwhinnie	1007·5	0	W	2	bc	31	85	8	4	-	-	2-3	2-3	4000	4	*
Aberdeen	1006·5	+4	W	3	b	36	65	8	-	7	-	0	1	-	3	1
Wick	1003·5	+4	WSW	3	bc/ps	33	85	8	5	7	8	4-6	4-6	1500	4	1
Lerwick	997·1	+4	NNW	5	c	36	85	8	8	7	-	4-6	7-8	800	4	*
Blacksod Point	1005·9	-8	SSE	3	c	41	85	8	5	-	-	7-8	7-8	2500	0	2
Malin Head	1007·8	-10	S	1	c	36	85	8	5	4	-	4-6	7-8	4000	0	3
Aldergrove	1008·4	-6	SES	2	bc	32	92	7	-	3	-	0	4-6	-	1	*
Birr Castle	1006·1	-10	ESE	1	c	34	97	7	5	7	-	4-6	9	1500	1	*
Valentia Obsy. †	1004·3	-14	E'S	2	c	45	85	8	5	-	-	9+	9+	2500	1	2
Roches Point	1004·3	-18	EN	3	c	44	85	8	5	1	-	4-6	9	1500	1	3

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. 10th (37)	13h.—18h. 10th (38)	18h. 10th to 1h. 11th (39)	1h.—7h. 11th (40)
London (Kew)	c cm	czfy ciro	ororcmo	cmorcm
Croydon	cumo	fmirodod	omddirm	rrrodo
S. Farnborough	cmo	cmrofm	roRc	cRroroc
Boscombe Down	cd.d.mcm	crorirm	orrmomr	orrc
Calshot (Sthmtn.)	ciro cmo	croro cfr	cRRc	crrirc
Lympne	cmo	cmomror	cFrrir	omcror
Manston	c cmo	cmo	crorcomr	omiroc
Shoeburyness	cmo wc	cmo idoc	rorror	ciroc
Felixstowe	ciromoc	cmocm	cmrrRR	crorir
Gorleston	bccz	czozo	czoiro	orrroq
Mildenhall	bcmoczo	cmo	crcrrcir	ofroroc
Cranwell	bmoem	cm⊕bmw	/bmwcm	oosrSRR
Birmingham	bfcF	fc	crr	orr
Upper Heyford	c	c rozo	rorrcr	rrror
Ross-on-Wye	c	co	rormrR	rro
Hartland Point	crc	cror	crroc	crobcc
Bristol	bccFec	cdororro	crorror	crorcq
Portland Bill	oido	orr	oir	orrc
Plymouth	bccdoror	iro ir	oircq	cq
The Lizard	cpro	cprc	cprq	cbc
Scilly (St. Mary's)	croro	croidop	crrc	cbccpq
Guernsey	rr cir	oiro	oir	orcpr
Pembroke	bccmo	ciromrr	qprsmrrR	oiRmirc
Holyhead	bcc, ⊕	c ⊕	rormoc	rrRRc
Chester (Sealand)	bcxmc⊕	cm ⊕	fewcmr	crrfSSr
Manchester	bmoffcFff	cfbcfFFx	ofx, cmox	PRSrsprsq
Spurn Head	bbcz	bcbzw	bcmzo	Rrqo
Catterick	b	bcbxmo	bxmmo	xpssf
Tynemouth	bbc	bc	bcm	bcmoir
St. Abbs Head	bqy	bzo	bbcc	cm
Leuchars	bxbvb	bbcx	bexbx	bxcxm
Renfrew (Abbots I.)	bcxb	bcb	FFbmox	bmFFox
Eskdalemuir	bxbcb	bbx	bbcx	bccxmo
Point of Ayre	bbc	bc	bcc	c
Tiree	bcc	cbc	bc	bc
Stornoway	bcprs q	c,b prs	b	bbcpro
Dalwhinnie	bc	bc		bc
Aberdeen	bxb	b	bbx	bxzo
Wick	pshrs	bcprs	pshb	bbc
Lerwick	cphr	cphrpsq	cPHRq	cprq
Blacksod Point	c	c	c	c
Malin Head	cbcc	cbcc	cbcc	c
Aldergrove	bbcmo	bc	bcx	bccx
Birr Castle	ffb	bbcc	c	cx
Valentia Obsy. †	probc	bcc	crorocc	circir
Roches Point	bcc	c	c	c

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s_o, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s_o/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
⊕, Solar halo. lunar halo. Aurora.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.

Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.

An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.

"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.

"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As: Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. „ wet.
2 .. „ flooded.
3 .. „ frozen hard and dry.
4 .. „ partly covered with snow or hail.
5 .. „ covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. „ covered with snow, less than 6 ins., deep but ground not frozen.
8 .. „ covered with snow, less than 6 ins., but ground frozen
9 .. „ covered with snow greater than 6 ins. deep.

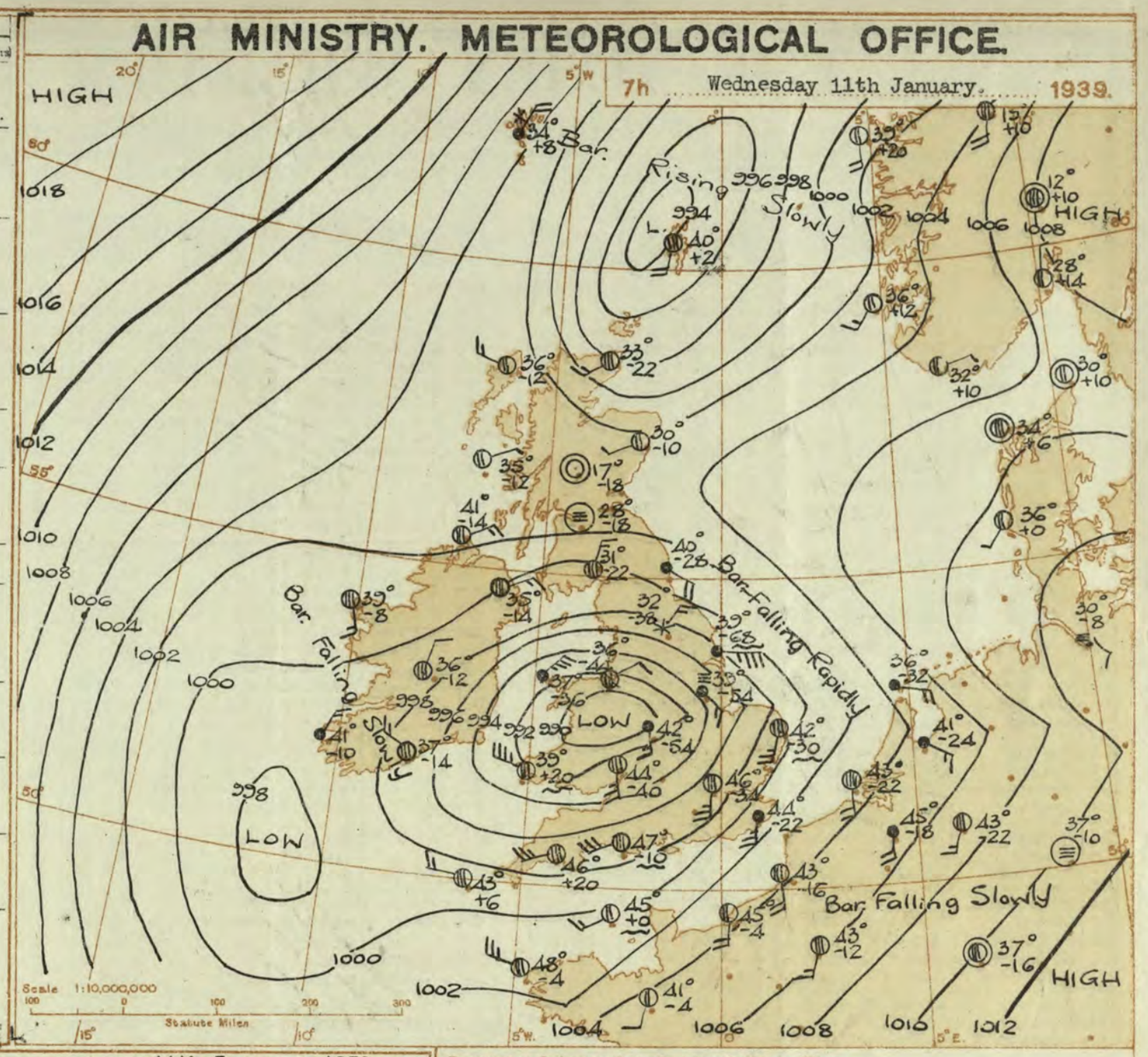
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2*

§ See disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 10th January, 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature (°F.) Min. 9h. 9th to 9h. 10th	Temperature (°F.) Max. 9h.—17h. 10th	Rainfall (mm.) Night, 17h. 9th to 9h. 10th	Rainfall (mm.) Day. 9h.—17h. 10th	Sunshine (hrs.) Sunrise to Sunset 10th.
1	Tunbridge W.	o	o	38	46	1	-	0·0
	Bournemouth	o	odrd	43	48	Trace	1	0·0
	Ventnor ...	rou	rodf	46	49	0·3	1	0·0
	Southsea ...	ccf	coro	43	48	Trace	0·3	0·0
	Bognor Regis	o	prr	43	47	0·5	0·5	0·0
	Littlehampton	c	cor	42	47	0·3	0·5	0·0
	Worthing ...	c	cor.	44	47	0·5	0·5	0·0
	Brighton ...	c	cd	45	48	1	0·2	0·0
	Eastbourne† ...	o	od	46	47	2	0·3	0·0
	Hastings† ...	co	or.r	44	47	1	0·3	0·0
	Folkestone ..	m.oco	oco	42	46	2	-	0·0
	Dover ...	oc	co	44	46	2	-	0·0
	Deal	o	o	43	46	0·3	-	0·0
	Ramsgate ...	bcc	c	43	48	1	-	0·0
	Margate ...	c	c	42	46	1	-	0·1
2	Southend ...	gom	o	41	45	Trace	-	0·0
	Clacton-on-Sea	cbc	bcc	41	44	0·1	-	0·3
	Dovercourt ...	bc	bcc	41	44	-	-	1·0
	Lowestoft ...	bbcz	bbcm	37	41	-	-	1·5
	Skegness ...	cbc	bccm	33	40	-	-	3·2
	Mablethorpe...	bcb	bcm	34	42	0·3	-	3·9
	Cleethorpes ...	bc	bc	34	41	Trace	-	2·1
3	Leamington S.	Om	c	34	42	-	-	0·0
4	Cheltenham†	c	cop.	40	46	-	Trace	0·0
5	Bath	c	crr	43	46	Trace	2	0·0
	Weymouth ...	mc	cd	45	48	Trace	1	0·0
	Jersey ...	rcor	rc	47	50	2	5	0·0
	Torquay ...	od	pr	45	49	-	0·5	0·0
	Falmouth	c	ogr.o	45	47	Trace	1	0·0
	Penzance ...	cid.	cir	45	49	Trace	2	0·0
	St. Ives ...							
	Bude... ...	oe	dro	46	49	1	1	0·0
	Ilfracombe ...	oroco	orr	44	48	0·3	0·6	0·0
6	Aberystwyth	cbcc	c	35	46	-	-	0·3
7	Llandudno ...	xc	c	35	41	3	-	0·2
	Colwyn Bay...	zbccz	cbc	35	42	2	-	0·4
	Rhyl	bbcz.	bcbz	34	41	3	-	0·0
8	Wallasey ...	mbc	bcf	35	43	2	-	0·2
	Southport ...	bcfm	bccmf	35	43	1	-	0·5
	Blackpool ...	bm.fm	cmfcm	40	44	0·5	-	1·9
	Morecambe ...	bc.	bcf	37	42	4	Trace	2·1
9	Ilkley... ...	cbc	bc	30	40	1	-	1·8
	Harrogate ...	b	b	31	40	1	-	4·0
10	Berwick-on-T.	b	m.b	33	40	-	-	6·2
11	Dunbar ...	bcm.x	bcm.	33	40	Trace	-	5·3
12	Troon... ...	cobc	bcc	40	46	-	-	5·3
	Douglas ...	bcirx	b	35	48	1	-	5·6

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	Forecasts for the 24 hours commencing 12 noon, G.M.T. 11th January, 1939.
1 S.E. England ▼ 2 E. England ▼ 3 E. Midlands ...	Southwesterly winds, veering, strong to gale locally at first; occasional rain; some bright intervals; average temperature.
4 W. Midlands ... 5 S.W. England ▼▲ 6 South Wales ▲	Westerly winds, veering temporarily, fresh to strong at times; occasional rain or hail, some bright intervals; average temperature.
7 North Wales ▲ 8 N.W. England 9 N. Midlands ... 10 N.E. England ▲ 11 S.E. Scotland	Easterly winds, strong to gale locally at first, moderating and becoming northerly later; occasional rain; sleet or snow on high ground; average temperature.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland 17 N. W. Ireland 18 N. E. Ireland	Northerly winds becoming fresh to strong at times; bright periods, local showers of rain or hail, snow on high ground; rather cold with night frost.
19 S. E. Ireland ▲ 20 S. W. Ireland	West to northwest winds, strong at times; occasional rain; some bright intervals; average temperature.

GENERAL INFERENCE.

A disturbance over the Midlands will move rapidly to the North Sea and merge with another at present moving southeastwards near the Shetlands. Weather will be unsettled generally but with considerable bright intervals, particularly in the extreme West and Northwest.

FURTHER OUTLOOK.

Continuing rather unsettled generally but with bright intervals, particularly in the North and Northwest.

Times of Issue of Gale Warnings.

▼ South Cone hoisted at 2230 on 10/1/39 in part of districts 1 and 5, and at 0445 on 11/1/39 in district 2 and remainder of 1.

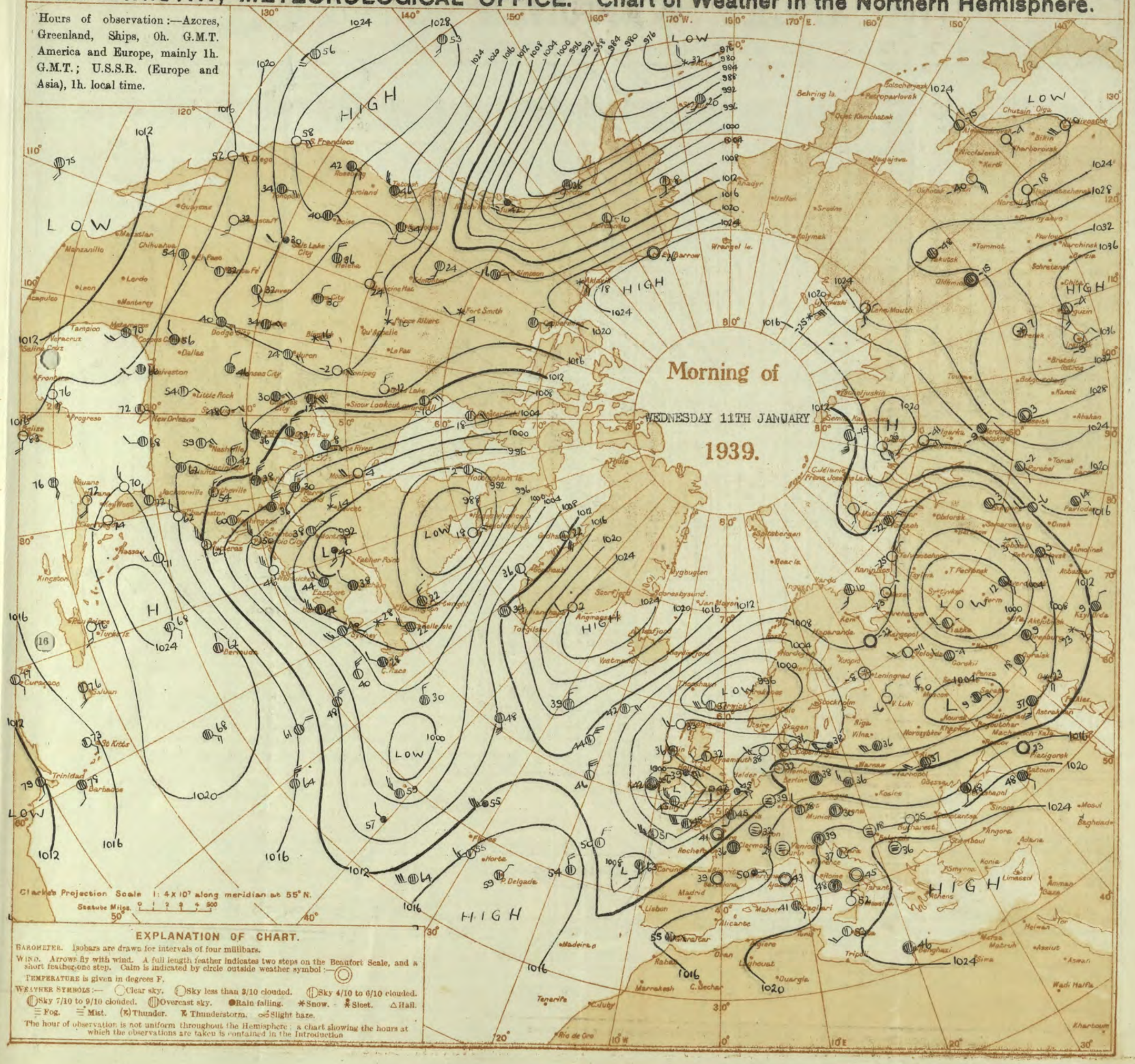
▲ North Cone hoisted at 2230 on 10/1/39 in district 6 and parts of 5,7, and 19, and at 0445 on 11/1/39 in part of district 10.

Forecasts issued at 1030 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S.
Director.

H.M. Stationery Office Press, Kingsway, W.C.2

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 11th January, 1939
No. 28174

OBSERVATIONS at 1 hr. G.M.T. 11th January

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1023·1	-36	S'E	2	ir.	47	97	6	6	2	-	9	10	800
	S. Farnborough	228	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1025·8	-30	S'E	3	m/f	45	97	4	5	-	-	10	10	<150
	Manston ...	154	1024·8	-34	SSE	3	m/r	45	97	4	6	-	-	10	10	<150
2	Shoeburyness...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1006·2	-36	SE'E	4	ir.	40	85	6	6	-	-	10	10	1500
	Mildenhall ...	19	1004·0	-42	E	4	o/r	38	97	6	5	-	-	10	10	1500
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	989·6	-86	SSE	5	c	48	85	8	8	-	-	7·8	7·8	1500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	998·4	-38	S	5	ir	48	92	7	5	-	-	10	10	1500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ..	240	992·2	-36	W'S	8	c	45	97	7	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	995·3	+34	NW	7	c	43	85	7	8	6	-	4·6	7·8	1500
	Guernsey ...	175	1004·6	-24	S'E	5	rr	48	92	6	5	-	-	10	10	1500
6	Pembroke ...	142	991·7	-54	E'N	7	iR	43	92	6	9	-	-	10	10	1500
7	Holyhead ...	26	1000·0	-36	E'N	5	r.r.	39	97	5	6	2	-	4·6	10	220
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1006·1	-24	SE	3	c	40	92	6	-	2	-	0	10	-
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1006·9	-20	SW	2	m	32	85	4	5	-	-	4·6	4·6	800
11	St Abbs Head ..	280	1006·7	-12	NW	1	bc	37	75	7	4	1	6	2·3	4·6	2500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1003·9	-22	E'S	4	c	40	75	7	5	2	-	7·8	10	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1005·3	-6	WSW	3	b	33	85	8	5	-	-	1	1	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1002·3	-14	WSW	2	bc	32	97	8	5	-	-	2·3	2·3	1500
16	Lerwick ...	156	995·7	-10	WSW	6	c/pr	37	92	7	8	7	-	4·6	9	800
17	Blacksod Point	18	1002·7	-18	SSE	3	bc	37	85	8	5	-	-	4·6	4·6	2500
18	Malin Head ...	84	1004·4	-20	S	1	c	36	75	8	4	-	4	2·3	7·8	5700
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1000·2	-10	-	0	c	42	97	7	8	-	-	10	10	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 11th January

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
1	London (Kew)	995·8	-32	S'W	5	z.	46	85	6	5	-	-	10	10	1500	1	*
	Croydon ...	996·9	-34	S'W	5	c/d	46	85	8	5	-	-	7·8	10	1500	1	*
	S. Farnborough	995·1	-22	SSW	5	c	46	75	6	5	-	-	9+	9+	2500	1	*
	Boscombe Down	994·1	-14	SW'S	6	c	43	85	7	5	2	-	7·8	10	2500	1	*
	Calshot (Sthmtn.)	997·7	-10	SW'S	6	o/r	47	75	7	5	-	-	10	10	1500	1	4
	Lympne ...	1000·9	-22	S'W	5	r.r.	44	92	6	6	-	-	10	10	800	1	§3
	Manston ...	999·4	-26	S	5	ir.	46	85	7	5	2	-	4·6	10	1500	1	*
2	Shoeburyness...	998·5	-28	S	4	c/r	45	92	7	5	3	-	9	9+	1500	1	*
	Felixstowe ...	998·8	-32	S'E	5	c	43	92	7	5	2	-	7·8	10	1500	1	4
	Gorleston ...	999·2	-30	S'W	5	c/r	42	97	6	6	-	-	10	10	1500	1	4
	Mildenhall ...	995·1	-42	S'E	5	c/r	46	97	6	5	-	-	10	10	1500	1	*
	Cranwell ...	994·0	-54	SE	3	r f	39	97	3	-	2	-	10	10	<150	1	*
3	Birmingham ...	989·9	-54	SSE	3	rr	42	97	6	6	-	-	10	10	800	1	*
	Upper Heyford	992·8	-36	S'E	4	o/r	43	92	8	5	-	-	10	10	1500	1	*
4	Ross-on-Wye	989·0	-40	S'E	5	oq	44	92	7	5	-	-	10	10	1500	1	*
5	Hartland Point	994·0	+68	WNW	6	c	42	85	8	9	-	-	9	9	800	1	4
	Bristol ...	991·7	-4	SW	6	ir.	44	85	6	6	2	-	7·8	10	1500	1	*
	Portland Bill ...	995·6	-10	WSW	6	c	47	92	7	6	2	-	7·8	10	1500	1	5
	Plymouth ...	997·2	+20	WSW	5	cq	46	75	8	5	-	-	9+	9+	1500	1	3
	The Lizard ..	997·7	+12	W	4	bc	46	92	8	8	6	-	4·6	4·6	2500	1	3
	Scilly (St. Mary's)	998·6	+6	W'N	3	c/pr	43	85	8	8	6	-	7·8	7·8	1500	1	3
	Guernsey ...	1000·1	0	SW	3	bc/pr	45	85	8	8	7	-	4·6	4·6	1500	1	4
6	Pembroke ...	992·1	+20	WNW	7	cq	39	85	7	8	2	-	7·8	9+	1500	1	4
7	Holyhead ...	992·4	-36	NE'E	7	r.r.	37	97	6	6	2	-	7·8	10	450	1	3
	Chester (Sealand)	991·7	-44	ENE	2	c/r	36	85	7	6	2	-	9	10	1500	7	*
8	Manchester ...	993·2	-40	NE'E	5	c/rs	36	85	7	8	-	-	10	10	2500	1	*
10	Spurn Head ...	995·1	-68	E'S	7	RR	39	97	6	5	-	-	10	10	1500	2	4
	Catterick ...	998·8	-38	NE'N	3	ss	32	97	3	6	-	-	10	10	450	7	*
	Tynemouth ...	1000·9	-28	SE	4	ir.	40	75	7	6	-	-	10	10	800	1	2
11	St Abbs Head ..	1002·0	-20	ENE	1	c	37	85	6	5	2	-	7·8	10	1500	0	2
	Leuchars ...	1002·7	-18	NW	1	c	28	97	6	-	-	7	0	10	-	3	*
12	Renfrew (Abbots I.)	1003·0	-18	-	0	F	28	97	1	-	-	-	10	10	<150	3	*
	Eskdalemuir ...	1001·5	-22	NNE	3	c	31	85	6	5	-	-	10	10	2500	3	*
	Point of Ayre...	998·3	-34	E'N	5	c	39	75	7	5	2	-	2·3	10	1500	1	3
13A	Tiree	1002·7	-12	ENE	1	bc	35	97	8	8	-	-	4·6	4·6	2500	3	1
13B	Stornoway ...	1003·5	-12	WNW	3	bc/pr	36	92	8	5	-	-	2·3	2·3	4000	3	1
15	Dalwhinnie ...	*	-18	-	0	b	17	97	8	-	6	-	0	Tr	-	4	*
	Aberdeen ...	1002·6	-10	WSW	1	bc	30	85	6	5	-	8	Tr	2·3	2500	3	1
	Wick ...	998·8	-22	SW	3	c	33	97	8	5	7	-	2·3	7·8	1500	4	1
16	Lerwick ...	994·1	+2	SSW	4	c/pr	40	92	8	8	7	-	4·6	7·8	1500	1	*
17	Blacksod Point	1001·7	-8	SSE	3	c	39	92	8	5	-	-	7·8	7·8	2500	0	3
18	Malin Head ...	1002·0	-14	ENE	3	c	41	75	8	8	-	5	4·6	7·8	5700	0	2
	Aldergrove ...	1000·1	-14	ENE	3	c	35	85	7	5	-	7	2·3	10	2500	1	*
19	Birr Castle ...	998·4	-12	NNE	2	c	36	92	7	5	-	-	10	10	2500	1	*
20	Valentia Obsy. †	998·9	-10	NE'N	3	ir.	41	92	7	9	-	-	10	10	1500	1	2
	Roches Point	997·6	-14	NW	3	c	37	92	8	5	3	-	4·6	7·8	2500	1	2

PAST 24 HOURS.

District	Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F. (32)	Temperature Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine Yesterday Hrs. (36)
1	London (Kew)	46	41	40	Tr	5	0·0
	Croydon ...	47	42	41	Tr	5	0·0
	S. Farnborough	46	41	39	0·3	7	0·0
	Boscombe Down	45	41	40	1	6	0·0
	Calshot (Sthmtn.)	46	44	44	0·3	3	0·0
	Lympne ...	44	42	41	Tr	3	0·0
	Manston ...	46	43	41	-	2	0·2
2	Shoeburyness...	46	41	40	Tr	2	0·0
	Felixstowe ...	44	38	37	Tr	5	0·6
	Gorleston ...	44	37	34	-	7	0·0
	Mildenhall ...	43	33	33	-	5	0·0
	Cranwell ...	40	31	26	-	10	1·2
3	Birmingham ...	41	36	35	-	14	0·0
	Upper Heyford	42	37	35	Tr	7	*
4	Ross-on-Wye	43	37	37	Tr	12	0·0
5	Hartland Point	47	42	41	1	5	0·0
	Bristol ...	45	42	41	3	5	[illegible]
	Portland Bill ...	49	46	*	1	8	*
	Plymouth ...	47	42	43	3	1	0·0
	The Lizard ..	50	44	*	1	1	0·0
	Scilly (St. Mary's)	49	43	*	2	8	0·0
	Guernsey ...	51	45	43	1	1	0·0
6	Pembroke ...	50	38	*	1	20	0·0
7	Holyhead ...	43	33	32	-	9	1·3
	Chester (Sealand)	40	33	31	-	11	0·0
8	Manchester ...	37	33	27	-	4	0·0
10	Spurn Head ...	40	34	*	Tr	12	2·4
	Catterick ...	43	26	21	-	1	4·6
	Tynemouth ...	41	32	29	-	Tr	5·7
11	St Abbs Head ..	39	33	*	-	-	*
	Leuchars ...	41	26	17	-	-	6·5
12	Renfrew (Abbots I.)	43	26	22	-	-	0·0
	Eskdalemuir ...	39	23	20	-	-	6·5
	Point of Ayre...	49	36	*	-	-	6·2
13A	Tiree	43	30	22	-	-	2·4
13B	Stornoway ...	(40)	32	*	1	Tr	4·1
15	Dalwhinnie ...	36	16	9	-	-	2·7
	Aberdeen ...	40	29	19	-	-	5·9
	Wick ...	36	31	*	2	Tr	*
16	Lerwick ...	38	34	*	0·6	3	1·[illegible]
17	Blacksod Point	48	36	*	-	-	*
18	Malin Head ...	42	32	*	-	-	2·0
	Aldergrove ...	43	29	21	-	-	6·5
19	Birr Castle ...	40	30	28	-	-	4·2
20	Valentia Obsy. †	48	39	36	0·2	2	1·8
	Roches Point	44	36	*	-	-	*

LONDON OBSERVATIONS

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except for rainfall which is 9h—18h.

	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon (24 hrs. ended 9h.)	Weather Night (24 hrs. ended 9h.)	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. Yesterday	Humidity 15h. G.M.T % Yesterday	Humidity 9h. G.M.T % Yesterday	Visibility 9h. To-day
Kew ...	18	ccm	czfycir.	orrcm.	46	41	40	Tr	0·5	0·0	*	*	8
Croydon ...	217	com.	fmirdd.	ordd.	47	42	41	Tr	5	0·0	*	*	7
Greenwich (Royal Observatory) ...	149	cm.	cm.	crmgrc	46	41	39	-	4	0·0	67	70	7
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*	0·0	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	49	42	39	4		*	67	73	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*	48	41	39	Tr	5	0·0	68	69	*
Camden Square ...	110	c	o	*	45	41	39	3	2	*	*	65	*
Kensington ...	80	c	cmr	*	46	42	40	Tr	4	0·0	85	69	*
Hampstead Observatory ...	450	c	od	or	43	39	33	-	5	0·0	*	75	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 11th

	Max.	Time.	Min.	Time.
South Kensington.	0·3	15-17h 10th	<0·3	2-6h. 11th.
Kew Observatory.	0·8	16h. 10th	<0·1	2-7h. 11th.

FOREIGN OBSERVATIONS.

18h. G.M.T. 10th January — 7h. G.M.T. 11th January

Stations	18h. Barom. mb.	18h. Wind Direc.	18h. Wind Force	18h. Weather	18h. Temp. °F.	7h. Barom. mb.	7h. Wind Direc.	7h. Wind Force	7h. Weather	7h. Temp. °F.	Past 24 Hours Max. Day °F.	Past 24 Hours Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris ...	1012·3	S	2	z.	46	1005·3	SSW	3	c/r	43	*	43	Tr	Tr
Brussels ...	1012·2	SSW	2	id.	45	1004·5	S	4	id.	45	48	43	0·4	0·3
Berlin ...	1011·2	WSW	2	b	37	1013·2	-	0	bcf+	30	45	28	2	*
Zurich ...	1018·7	NE	1	m	32	1014·4	NNE	1	tlr	30	41	28	-	-
Rome ...	1021·0	E'N	3	b	57	1017·8	SSE	5	o	50	*	*	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	<1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	> 75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22 — Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1½ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6½ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30.—Code for State of Sea.

0 Calm.	5 Very rough.
1 Smooth..	6 High.
2 Slight.	7 Very high
3 Moderate.	8 Precipitous.
4 Rough.	9 Confused.

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY, LONDON, W.C.2. N. K. JOHNSON, M.Sc., A.R.C.S., Director.

† Sea observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 12th January, 1939.
No. 28175

OBSERVATIONS at 13h. G.M.T. 11th January

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0-12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Amount Low 0-10 (12)	Amount Total 0-10 (13)	Height of Base (feet) (14)
1	London (Kew)	995.5	-2	SW	4	c	47	75	7	8	-	6	4-6	9	2500
	Croydon ...	996.7	-2	SW	4	c	47	65	7	5	7	2	4-6	9	4000
	S. Farnborough	996.1	-10	WSW	6	c	46	65	8	8	3	6	4-6	7-8	1500
	Boscombe Down	995.9	-6	W'S	4	bc	46	85	8	8	7	-	4-6	4-6	2500
	Calshot (Sthmtn.)	998.0	-4	SW	4	bc	48	75	8	1	5	-	1	4-6	2500
	Lympne ...	999.3	-10	SWS	4	c/pr	45	92	7	2	-	6	2-3	9	1500
	Manston ...	998.0	-8	ESE	5	c/pr	47	75	7	8	-	6	2-3	9	1500
2	Shoeburyness ...	997.4	-2	SW	4	c	47	75	8	7	7	7	4-6	7-8	4000
	Felixstowe ...	996.3	-12	SW	5	c	45	65	8	8	1	-	9	9+	1500
	Gorleston ...	995.0	-16	SWW	6	c	45	85	6	6	3	-	4-6	9+	2500
	Mildenhall ...	998.7	-4	SSW	6	bc	46	75	8	5	-	-	4-6	4-6	4000
	Cranwell ...	990.3	-8	SSW	5	ro	41	92	7	5	2	-	9	10	800
3	Birmingham ...	991.7	+10	SW	4	c	39	85	8	5	-	-	9+	9+	1500
	Upper Heyford	994.3	+2	SW	4	c	43	85	7	7	-	-	9+	9+	1500
4	Ross-on-Wye	993.1	+14	W'S	3	bc	42	65	7	7	-	-	4-6	4-6	4000
5	Hartland Point	996.3	+6	WNW	4	ro	41	92	8	9	-	-	9+	9+	1500
	Bristol ...	995.4	+10	WSW	4	c/pr	43	85	7	8	-	-	7-8	7-8	1500
	Portland Bill ...	996.7	-10	WSW	6	c	47	92	8	5	-	-	7-8	7-8	2500
	Plymouth ...	997.1	-14	W'S	3	bc	48	65	8	3	-	-	4-6	4-6	2500
	The Lizard ...	997.7	-16	WNW	3	c	45	85	8	8	6	-	4-6	7-8	2500
	Scilly (St. Mary's)	998.1	-10	W	4	bc/pr	47	75	8	8	6	3	4-6	4-6	1500
	Guernsey ...	999.1	-16	SW	3	c/pr	47	85	9	8	-	8	4-6	7-8	2500
6	Pembroke ...	995.3	+10	WNW	5	cq	42	85	7	9	-	-	9+	9+	1500
7	Holyhead ...	991.7	-4	NNE	6	roro	40	85	7	9	2	-	7-8	10	800
	Chester (Sealand)	990.4	+4	W	2	rs	34	97	4	-	2	-	10	10	800
8	Manchester ...	989.2	-10	NE'N	2	roro	36	97	4	6	2	-	7-8	10	800
10	Spurn Head ...	989.2	-24	S'W	5	c	41	92	6	5	2	-	4-6	10	1500
	Catterick ...	990.4	-42	N'E	4	so	33	97	5	5	-	-	10	10	450
	Tynemouth ...	991.8	-50	NE	8	rr	38	85	6	6	-	-	10	10	800
11	St. Abbs Head ...	996.5	-24	NE	1	c	38	92	7	3	2	-	7-8	10	1500
	Leuchars ...	998.0	-30	NNW	2	c	33	85	6	-	7	7	0	10	-
12	Renfrew (Abbots I.)	998.5	-30	NNE	1	c	32	92	9	-	5	8	0	9	-
	Eskdalemuir ...	995.0	-30	NNE	4	soso	34	92	6	6	-	-	10	10	800
	Point of Ayre...	994.2	-28	NE	6	c	40	75	7	5	1	-	7-8	10	1500
13A	Tiree ...	1001.5	-2	N'E	2	bc	38	92	8	8	-	-	4-6	4-6	1500
13B	Stornoway ...	1000.5	-20	N	4	pr	39	85	7	8	7	-	7-8	9+	2500
15	Dalwhinnie ...	999.7	-24	-	0	c	30	85	8	4	6	-	4-6	9+	2500
	Aberdeen ...	998.8	-30	NW'N	2	if	31	85	3	-	-	6	0	7-8	-
	Wick ...	996.5	-20	SW	3	c	36	92	8	5	7	8	4-6	9	1500
	Lerwick ...	995.5	0	S	2	c	41	85	8	8	7	-	4-6	7-8	1500
17	Blacksod Point	1001.6	-6	NW	4	c	40	92	8	5	-	-	4-6	7-8	1500
18	Malin Head ...	999.7	-12	N'E	5	c	41	65	8	7	-	9	2-3	7-8	5700
	Aldergrove ...	998.0	-14	N'E	2	c	36	85	8	5	1	-	Tr	10	5700
19	Birr Castle ...	999.5	-2	ENE	1	c	36	92	8	5	-	-	10	10	2500
20	Valentia Obsy. †	999.8	-2	NE'N	3	bc	39	85	7	2	7	-	4-6	4-6	1500
	Roches Point	998.6	-2	N'E	3	c	39	85	6	-	-	-	9+	9+	1500

OBSERVATIONS at 18h. G.M.T. 11th January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0-12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Amount Low 0-10 (26)	Amount Total 0-10 (27)	Height of Base (feet) (28)
London (Kew)	996.0	+4	SSW	3	bc	43	85	7	-	-	1	0	2-3	-
Croydon	996.9	+2	SSW	4	zo	42	85	6	-	-	6	0	7-8	-
S. Farnborough	996.2	+2	SSW	4	bc	41	85	7	-	-	1	0	2-3	-
Boscombe Down	996.2	+6	WSW	3	bc	41	85	7	5	7	8	2-3	4-6	2500
Calshot (Sthmtn.)	997.7	0	SW	3	bc	44	85	8	5	7	-	Tr	2-3	1500
Lympne	999.1	-2	SSW	3	c/pr	43	92	8	8	6	6	7-8	9+	1500
Manston	997.7	-6	S'W	4	c	44	85	8	5	7	-	4-6	9	1500
Shoeburyness	997.1	0	SSW	4	c	43	85	8	-	7	7	0	10	-
Felixstowe	996.5	-2	S	5	bc	42	92	7	5	1	8	4-6	4-6	4000
Gorleston	995.5	0	SSW	4	bc	42	85	6	5	3	-	1	2-3	2500
Mildenhall	994.3	+4	SSW	4	bc	43	75	7	5	3	-	2-3	2-3	4000
Cranwell	991.8	+6	WSW	4	zo	40	75	6	5	-	-	9	10	2500
Birmingham	993.3	+6	WSW	4	c	38	85	8	5	-	-	9	9	1500
Upper Heyford	994.7	+6	WSW	4	bc	39	85	8	5	-	-	2-3	2-3	1500
Ross-on-Wye	994.6	+6	WSW	3	c	40	65	7	5	-	-	9	9	1500
Hartland Point	996.3	+4	WNW	4	c	42	85	8	8	6	-	4-6	7-8	1500
Bristol	996.0	+6	WSW	4	pr	40	85	7	5	-	-	9+	9+	1500
Portland Bill	996.3	-10	W	4	c	46	92	8	5	-	-	7-8	7-8	2500
Plymouth	997.5	+2	W'N	2	bc	43	75	7	8	-	-	2-3	2-3	1500
The Lizard	997.2	0	W'N	2	bc	43	85	8	8	4	-	4-6	4-6	2500
Scilly (St. Mary's)	997.4	+4	NW'N	4	pr	43	85	8	8	4	3	4-6	7-8	1500
Guernsey	998.3	-2	WSW	1	c	43	97	6	5	-	-	9	9	2500
Pembroke	996.5	+10	N'E	4	ido	39	85	7	8	-	-	9+	9+	1500
Holyhead	994.4	+18	N	6	roro	39	85	7	6	2	-	7-8	10	800
Chester (Sealand)	992.6	+16	NW	2	rs	35	92	5	-	2	-	10	10	1500
Manchester	991.1	+12	NW	3	roro	34	97	4	-	2	-	10	10	450
Spurn Head	989.3	+4	SW'S	5	oq	40	85	7	5	-	-	10	10	1500
Catterick	989.2	-2	NNW	3	rs	35	92	5	6	-	-	10	10	300
Tynemouth	988.2	-20	NE	8	c	40	85	8	6	-	-	10	10	800
St. Abbs Head	993.2	-20	NNE	4	bc	39	85	9	3	6	-	2-3	4-6	1500
Leuchars	995.2	-14	NNW	2	zo	32	85	6	-	7	5	0	4-6	-
Renfrew (Abbots I.)	996.2	-14	W	2	zo	28	92	6	-	5	8	0	9+	-
Eskdalemuir	992.9	-10	N	4	c	33	92	6	5	-	-	10	10	1500
Point of Ayre	994.5	+2	N'E	5	c	38	75	7	5	-	-	7-8	7-8	1500
Tiree	997.4	-8	NNW	4	bc	41	85	8	8	-	-	4-6	4-6	2500
Stornoway	998.5	-6	N	4	c/pr	38	92	7	8	7	-	9	9	2500
Dalwhinnie	"	-16	NNE	1	bc	29	92	8	4	6	-	2-3	2-3	4000
Aberdeen	996.1	-16	NW	2	c	30	97	6	5	-	8	7-8	9	1500
Wick	995.3	0	SW	2	bc	36	92	8	5	7	-	4-6	4-6	1500
Lerwick	997.4	+14	SSE	5	c/r	40	85	8	8	7	-	7-8	10	800
Blacksod Point	1001.5	0	NW	2	c	39	92	8	9	-	-	7-8	7-8	1500
Malin Head	998.6	-4	N	4	c/pr	39	85	8	9	-	-	7-8	7-8	4000
Aldergrove	997.7	0	-	0	c	35	75	8	5	-	8	2-3	10	2500
Birr Castle	999.9	+6	E	1	c	35	92	7	5	-	-	10	10	2500
Valentia Obsy. †	1001.0	+10	NE	2	bc	38	75	8	7	7	-	2-3	4-6	2300
Roches Point	999.8	+8	N	3	c	37	85	8	5	-	-	7-8	7-8	2500

PAST 24 HOURS.

Stations	State of Ground 0-9 (29)	Sea 0-9 (30)	Weather 7h.—13h. 11th (37)	Weather 13h.—18h. 11th (38)	Weather 18h. 11th to 1h. 12th (39)	Weather 1h.—7h. 12th (40)
London (Kew)	1	*	cmcmbc	czobc	bcbbc	bccw
Croydon	1	*	pobcc	cczo	bcmowc	cbcw
S. Farnborough	1	*	cmogc	cbcb	bwc	bcwc
Boscombe Down	1	*	cbc	bc	bcbc	bcbx
Calshot (Sthmtn.)	1	2	cbc	cb	bbcbw	bwbx
Lympne	1	§4	copro	cpro pr	cdoroir	oirrocm
Manston	1	*	cidopro⊕	cproiroc	crorom o	crrmo
Shoeburyness	1	*	cbc	bcc	cb	ffcm
Felixstowe	1	4	cerocbc	cbc	bcbcmo	bcmow
Gorleston	1	3	oircq	cbcq	bcw	bccw
Mildenhall	1	*	ccrocbc	cbc	bc,b	bccmo
Cranwell	1	*	rofrroro	cirocmo	czocmo	cmo
Birmingham	1	*	oirc	c	cido	cbc
Upper Heyford	1	*	cdocq	cb	bbcc	cbcb
Ross-on-Wye	1	*	oqdocbc	bcqcc	cbbccbc	bcbx
Hartland Point	1	3	cpiro	iroc	c	c
Bristol	1	*	croqpo	bccpo	cpobcb	bbcbx
Portland Bill	1	4	c	c	cbc	bcb
Plymouth	1	1	cqprbc	bccbc	bccdombc	bc,bx
The Lizard	1	1	prcbc	prcbc	prcbc	bbcm
Scilly (St. Mary's)	1	2	cbcpo	bccpo	cirobc	bccbd
Guernsey	1	3	bccpr	cprc	coprc	cprbc
Pembroke	1	3	cirq	idoqc	bc	bc
Holyhead	1	3	RSrso	mrorc	crobbc	bcprc⊕
Chester (Sealand)	4	*	ororosrso	crsrsmo	crrmo	crro
Manchester	1	*	rsSmoro	roromffoso	roromrsrs	crocmbcmo
Spurn Head	1	4	rqprc	bcq	bcmp	czo
Catterick	6	*	fmoSS	SSmoroso	rosoroc	cbc
Tynemouth	1	4	orsrs	orr	oiro	obc
St. Abbs Head	0	4	c	ircbc	rrqc	cq
Leuchars	3	*	cjfcxmo⊕	c,bcxmo	bx	bbcx⊕
Renfrew (Abbots I.)	3	*	oFxc⊕	cmo	cbmox	bbcmox
Eskdalemuir	3	*	oxosoSo	oSoSocmo	bcx	bcbbcx
Point of Ayre	1	3	c	c	bcbbc	cromr
Tiree	0	3	cbc	bcc	bccpr	c
Stornoway	1	2	bccir	cpr	cbcpr	bccpro
Dalwhinnie	4	*	bbc	cbc	*	bciso
Aberdeen	3	1	bcxif	bcxif	bcsocrs	cciro
Wick	4	1	bcc	cbc	prbc	cprrr
Lerwick	1	*	c	cprrr	cphr	cphrq
Blacksod Point	1	2	c	phrc	cbc	prc
Malin Head	0	3	cbcyc	cbcc	cprbccpr	cprbc
Aldergrove	1	*	cmoc	c	psoprso	cpro,b
Birr Castle	1	*	c	c	cbc	bccx
Valentia Obsy. †	1	2	irozobc	bc	bcbbx	bx
Roches Point	1	2	czo	czo idc	cbc	bcxbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog ,, less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s_o, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s_o/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.

q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
⊕, Solar halo. ⊕ lunar halo. Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As: Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. ,, wet.
2 .. ,, flooded.
3 .. ,, frozen hard and dry.
4 .. ,, partly covered with snow or hail.
5 .. ,, covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. ,, covered with snow, less than 6 ins., deep but ground not frozen.
8 .. ,, covered with snow, less than 6 ins., but ground frozen
9 .. ,, covered with snow greater than 6 ins. deep.

NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2*

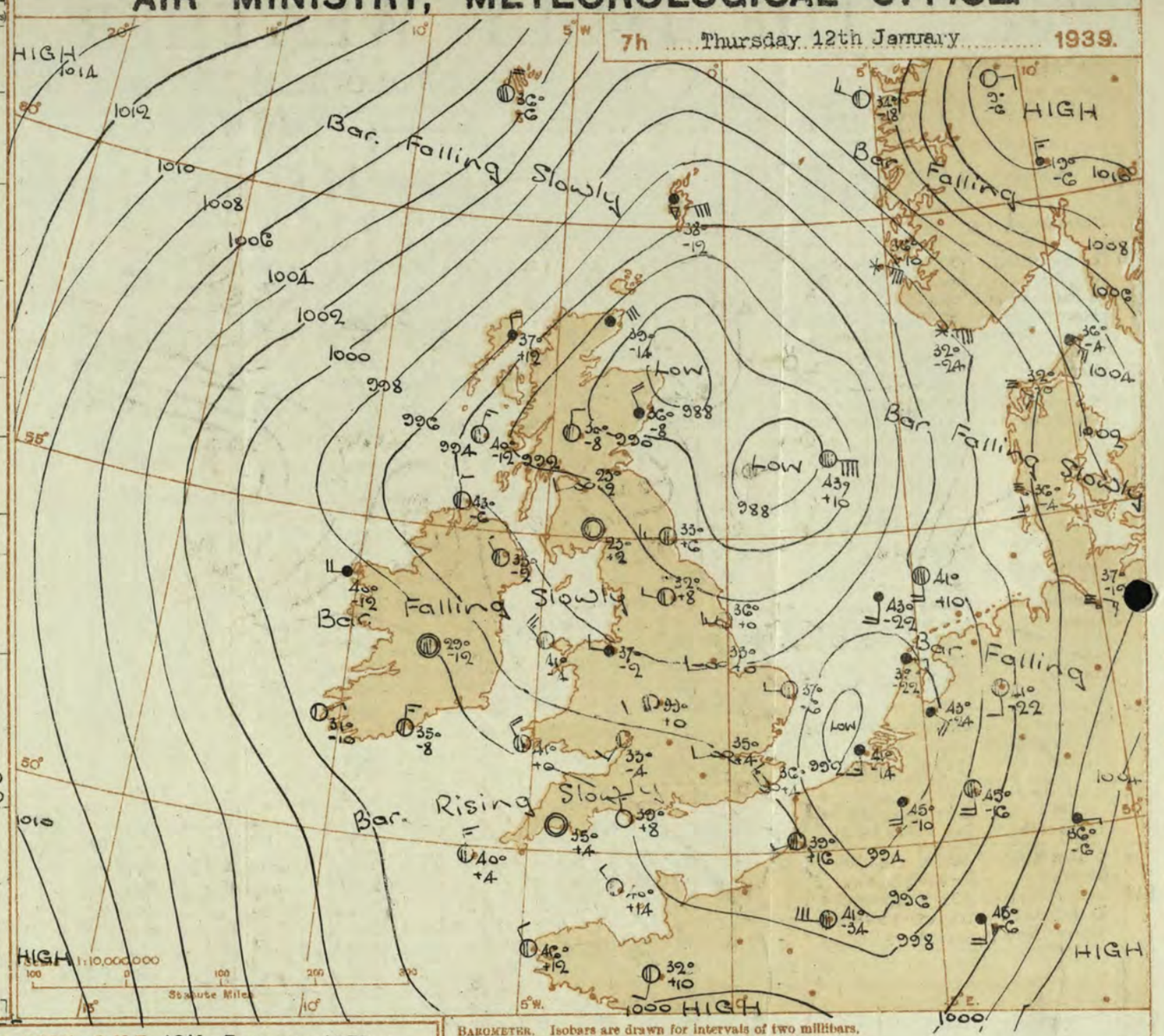
§ Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 11th January 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F.) Min. 9h. 10th to 9h. 11th	Temperature. (°F.) Max. 9h.—17h. 11th	Rainfall. (mm.) Night. 17h. 10th to 9h. 11th	Rainfall. (mm.) Day. 9h.—17h. 11th	Sunshine (hrs) Sunrise to Sunset. 11th.
1	Tunbridge W.	bbc	o	40	47	3	–	2·1
	Bournemouth	b	bbc	44	48	7	–	5·1
	Ventnor ...	rbcoc	cpbc	45	48	1	0·3	1·8
	Southsea ...	cbc	bcb	45	48	3	–	2·5
	Bognor Regis	cbcc	circ	43	48	2	0·3	2·3
	Littlehampton	bc	bcpbc	43	48	3	0·1	1·3
	Worthing ...	bbc	c	44	49	3	–	1·7
	Brighton ...	bc	bccd	45	48	2	0·4	0·3
	Eastbourne† ...	cor₀	r₀oc	46	49	3	0·1	0·4
	Hastings† ...	cppc	pbcpc	45	47	4	2	1·2
	Folkestone ..	oiroc	coiro	42	48	2	0·3	0·6
	Dover ...	oco	oido	43	48	3	Trace	0·4
	Deal	occo	iro	43	48	2	Trace	0·2
	Ramsgate ...	c	odc	42	48	1	0·3	0·7
	Margate ...	cbc	cd₀	42	49	1	Trace	1·2
2	Southend ...	c	c	41	46	2	–	1·3
	Clacton-on-Sea	bcc	cbc	38	46	4	–	0·6
	Dovercourt ...	roc	bc	39	47	6	–	0·8
	Lowestoft ...	bcc	cbbc	36	46	7	–	0·4
	Skegness ...	cor₀o	ococ	32	43	11	Trace	0·0
	Mablethorpe...	or	oc	31	44	12	0·3	0·0
	Cleethorpes ...	circ	c	32	43	10	3	0·0
3	Leamington S.	oroc	bcc	36	47	8	–	4·0
4	Cheltenham†	oc	cbc	37	45	5	–	2·1
5	Bath	c	cbc	42	45	4	–	0·6
	Weymouth ...	c	cbb	45	50	7	–	2·0
	Jersey ...	pcbc	crc	45	51	0·1	1	2·1
	Torquay ...	b	b	44	49	9	–	6·9
	Falmouth	cpbcc	bcpbc	42	48	4	0·2	5·9
	Penzance ...	rbhpb	b o	42	48	4	2	5·4
	St. Ives ...							
	Bude... ...	crcp	cpbc	42	47	4	1	2·5
	Ilfracombe ...	oroco	oiro	42	51	3	4	0·0
6	Aberystwyth	rrc	cpr	37	42	10	4	0·0
7	Llandudno ...	r₀or₀	rrr₀	33	38	16	6	0·0
	Colwyn Bay...	opo	oprr	33	40	14	2	0·0
	Rhyl	rsgor	orr	38	39	8	5	0·0
8	Wallasey ...	srs	rsr	32	36	9	3	0·0
	Southport ...	rscrs	rsors	32	36	7	6	0·0
	Blackpool ...	orsr	orrm₀	32	37	6	6	0·0
	Morecambe ...	cdr	cr₀	32	40	1	0·5	0·0
9	Ilkley... ...	ossrs	rsrs	29	40	10	3	0·0
	Harrogate ...	ossrs	ossrs	29	33	12	13	0·0
10	Berwick-on-T.	or₀	or₀c	29	40	–	1	0·0
11	Dunbar ...	bcm₀x	cprsh	29	40	–	1	0·0
12	Troon... ...	xocco	occcc	30	37	–	–	0·0
	Douglas ...	cxrs	cirsm	34	38	1	1	0·0

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.–9h.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	Forecasts for the 24 hours commencing 12 noon, G.M.T. 12th January, 1939.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ...	Wind west to northwest, light; fine, local fog at night; average temperature or rather cold during day, sharp frost at night.
7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Wind west to northwest, light to moderate; considerable bright periods, local wintry showers; local fog at night; rather cold, with sharp frost at night.
13 A. W. Scotld. / B. N.W. Scotland.	Wind north to northeast, moderate to fresh, gale in north; intermittent rain or sleet with snow on hills; rather cold.
14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 7 - 13A.

GENERAL INFERENCE.

A complex depression off East Scotland is moving slowly north-northeast and another over Holland will move northeast. There will be rain or sleet with snow on hills in the northern half of Scotland. Elsewhere there will be considerable bright periods and local wintry showers chiefly in the west and north.

FURTHER OUTLOOK.

Wintry showers, bright periods, frost at night.

Time of issue of Gale Warning

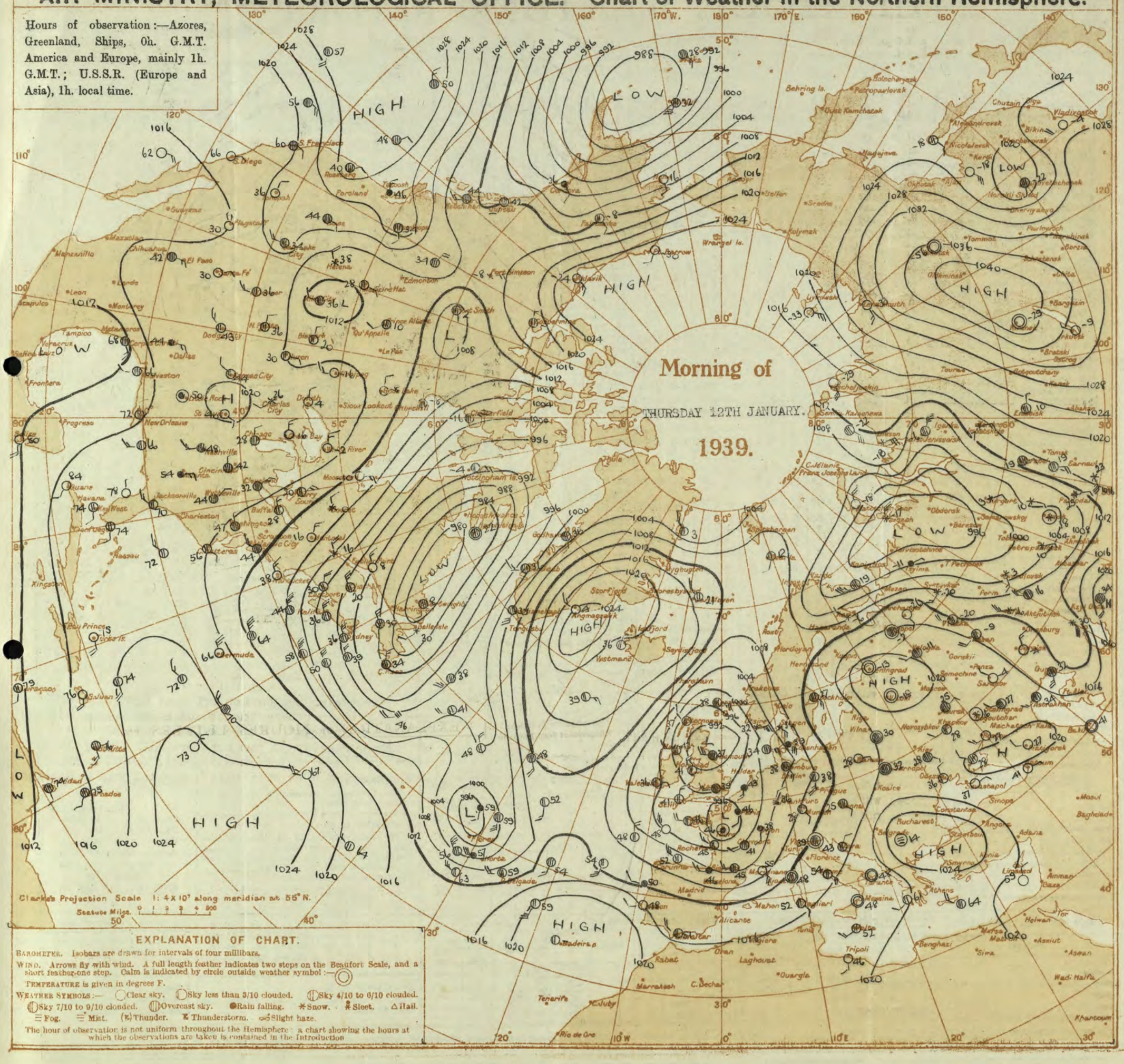
North cone hoisted at 0825 on 12th in district 16.

Forecasts issued at 1000 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S.
Director.

H.M. Stationery Office Press, Kingsway, W.C.2. 6,130/2625 m 6066 D 3783 G 948 28140 1/39.

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol:—

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS:— Clear sky. Sky less than 3/10 clouded. Sky 4/10 to 6/10 clouded. Sky 7/10 to 9/10 clouded. Overcast sky. Rain falling. Snow. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.

The hour of observation is not uniform throughout the Hemisphere: a chart showing the hours at which the observations are taken is contained in the Introduction

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 12th January, 1939.
No. 28175

OBSERVATIONS at 1 hr. G.M.T. 12th January

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	996.0	−6	WSW	3	c	39	85	7	—	7	—	0	10	—
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	996.8	−18	WSW	2	ir	41	97	7	6	—	—	10	10	800
	Manston	154	995.7	−14	SSW	2	roro	42	92	6	5	—	—	10	10	2500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	995.8	0	SW'S	2	bc	38	92	6	5	—	—	2-3	2-3	2500
	Mildenhall	19	994.7	−2	SW	3	bc	38	85	7	5	—	—	4-6	4-6	4000
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	996.9	0	N	3	c	41	85	8	8	—	—	7-8	7-8	1500
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32	995.7	−6	NNW	3	bc	41	85	8	5	—	—	4-6	4-6	2500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard	240	997.7	0	N'W	2	bc	39	97	8	8	—	—	4-6	4-6	2500
	Scilly (St. Mary's)	163	998.2	+4	NNE	3	bc	41	75	8	8	—	—	2-3	2-3	1500
	Guernsey	175	995.4	−6	W	1	bc/pr	43	85	9	6	—	—	4-6	4-6	2500
6	Pembroke	142	997.6	−2	N'W	3	bc	39	75	7	2	—	—	2-3	2-3	1500
7	Holyhead	26	994.9	−2	NNW	4	bc	41	75	7	2	—	—	2-3	2-3	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	991.6	+6	W'S	5	m	36	92	4	5	—	—	10	10	4000
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	108	989.8	+14	W	5	c	37	85	7	6	—	—	10	10	800
11	St Abbs Head	280	989.8	−6	NNW	7	cq	38	65	8	3	2	—	7-8	10	1500
	Leuchars	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	994.3	−2	N'W	3	bc	38	75	8	—	4	—	0	2-3	—
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	995.6	−18	NW	2	bc	37	92	8	8	—	—	4-6	4-6	2500
16	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	994.4	−6	NE	3	bc	40	75	8	5	7	—	2-3	4-6	1500
16	Lerwick	156	998.3	−10	E	5	c/phr	38	92	8	8	7	—	7-8	10	800
17	Blacksod Point	18	1000.3	−8	W	4	bc	38	85	8	4	—	—	4-6	4-6	1500
18	Malin Head	84	995.2	−8	W'N	4	c/phr	42	85	6	9	—	—	7-8	7-8	2500
	Aldergrove	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1001.1	0	ENE	2	bc	36	97	8	3	—	—	2-3	2-3	4000
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 12th January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	995.9	+4	WSW	2	c	36	85	7	5	—	+	9+	9+	1500	1	*
Croydon	996.0	+4	W	2	z°	35	92	6	5	3	—	7-8	9+	1500	1	*
S. Farnborough	996.2	+8	W	2	z°	33	97	6	—	4	—	0	Tr	—	1	*
Boscombe Down	997.3	+8	W	3	b	30	97	6	—	—	—	0	0	—	3	*
Calshot (Sthmtn.)	997.7	+10	W	2	b	32	92	8	—	—	—	0	0	—	1	1
Lympne	996.0	+4	NW	3	z°	36	92	6	5	3	—	4-6	9+	2500	1	§1
Manston	994.5	+4	WNW	3	z°	38	85	6	5	—	—	10	10	1500	1	*
Shoeburyness	995.1	0	NW	2	bc	35	92	7	—	4	8	0	4-6	—	1	*
Felixstowe	994.5	−2	WNW	2	z°	37	85	6	5	2	—	Tr	10	2500	1	2
Gorleston	994.2	−6	WNW	1	c	37	65	6	5	—	—	10	10	2500	1	2
Mildenhall	993.9	−2	W'S	2	z°	35	97	6	5	—	—	4-6	4-6	4000	1	*
Cranwell	993.7	0	W	2	z°	33	97	6	5	—	—	9	9	4000	1	*
Birmingham	995.4	0	WSW	2	bc	33	92	6	—	7	1	0	2-3	—	1	*
Upper Heyford	996.1	+2	WSW	2	b	32	92	7	5	3	—	1	1	4000	1	*
Ross-on-Wye	996.2	−4	SW	2	b	33	85	7	5	7	1	Tr	1	2500	1	*
Hartland Point	997.5	+2	NW	3	c	40	65	8	8	—	—	7-8	7-8	1500	1	3
Bristol	997.1	0	WNW	1	z°	32	97	6	5	—	—	1	1	2500	1	*
Portland Bill	998.2	+8	NNW	3	b	39	85	7	—	—	—	0	0	—	1	3
Plymouth	998.6	+4	—	0	b	35	97	7	—	—	—	0	0	—	1	1
The Lizard	999.2	+4	NW	2	bc	35	92	8	4	—	—	2-3	2-3	2500	1	2
Scilly (St. Mary's)	999.2	+4	NNW	3	bc	40	75	8	5	4	—	2-3	2-3	2500	1	2
Guernsey	998.0	+14	NW	1	bc	40	75	8	7	3	—	4-6	4-6	2500	1	3
Pembroke	998.0	0	NW	4	bc	41	75	7	7	—	—	4-6	4-6	1500	1	2
Holyhead	994.1	−4	NW'W	5	c	41	85	8	2	—	8	4-6	7-8	2500	1	2
Chester (Sealand)	994.5	−2	W	2	ir°	37	85	7	6	2	—	9	10	1500	1	*
Manchester	994.0	−2	SSW	1	z°	32	92	9	7	—	6	4-6	9	4000	3	*
Spurn Head	992.4	0	W	3	c	36	92	6	5	—	—	10	10	4000	0	2
Catterick	992.7	+8	W'N	1	bc	32	85	7	—	—	8	0	4-6	—	4	*
Tynemouth	991.2	+6	W	3	bc	33	85	6	8	—	—	4-6	4-6	2500	1	2
St Abbs Head	989.8	−2	WNW	6	cq	36	75	7	5	4	1	4-6	7-8	2500	1	4
Leuchars	990.8	+4	WSW	3	bc	29	85	8	5	7	3	Tr	2-3	2500	3	*
Renfrew (Abbots I.)	993.7	−2	WSW	2	z°▽	23	92	5	—	—	8	0	4-6	—	3	*
Eskdalemuir	993.4	+2	—	0	bc	23	97	6	—	—	6	0	4-6	—	3	*
Point of Ayre	*	−6	NW	2	roro	39	92	7	6	2	—	7-8	10	1500	1	1
Tiree	992.7	−12	NNE	3	c	40	92	8	8	—	—	7-8	7-8	1500	0	3
Stornoway	996.8	+12	NNW	4	br	37	85	8	8	—	3	7-8	7-8	2500	1	2
Dalwhinnie	*	−8	N	2	c	30	92	8	4	6	—	4-6	7-8	2500	4	*
Aberdeen	988.6	−8	NW'N	4	ir°	36	92	6	6	2	—	10	10	800	4	2
Wick	991.6	−14	NE	6	rr	39	85	7	5	7	—	7-8	10	1500	1	3
Lerwick	995.4	−12	ENE	8	phr	38	85	8	9	7	—	7-8	10	800	1	*
Blacksod Point	998.4	−12	W	4	PR	40	92	7	9	—	—	9+	9+	800	1	3
Malin Head	994.3	−6	N'W	2	bc	43	75	6	2	—	—	4-6	4-6	4000	1	3
Aldergrove	994.5	−2	NW	1	bc	35	97	8	—	7	—	0	2-3	—	5	*
Birr Castle	998.2	−12	—	0	c	29	97	8	5	—	—	7-8	7-8	2500	3	*
Valentia Obsy. †	1000.8	−10	NE'E	1	b	31	92	8	8	—	—	1	1	1500	3	2
Roches Point	999.6	−8	N	3	bc▽	35	92	8	—	—	6	0	4-6	—	1	2

PAST 24 HOURS.

Stations	Temperature: Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall: Day 7h–18h mm. (34)	Night 18h–7h mm. (35)	Sunshine 11th Hrs. (36)
London (Kew)	47	35	29	–	—	0.5
Croydon	48	34	31	0·1	—	0.2
S. Farnborough	47	32	29	0·1	—	1.4
Boscombe Down	48	29	24	–	—	4.6
Calshot (Sthmtn.)	49	31	29	–	—	1.3
Lympne	46	36	34	0·2	4	0.6
Manston	49	38	36	0·1	5	1.1
Shoeburyness	49	35	30	Tr	—	2.2
Felixstowe	46	37	36	Tr	—	0.8
Gorleston	46	37	34	0·1	—	0.5
Mildenhall	47	*	31	0·2	—	1.4
Cranwell	43	33	30	0·5	—	0.0
Birmingham	43	33	29	1	0.2	0.0
Upper Heyford	44	32	24	0·1	—	*
Ross-on-Wye	45	33	25	0·1	—	2.9
Hartland Point	44	40	37	1	—	1.0
Bristol	44	31	*	0·1	Tr	0.8
Portland Bill	47	39	*	–	—	*
Plymouth	48	35	28	Tr	Tr	5.9
The Lizard	50	34	*	0·6	Tr	5.7
Scilly (St. Mary's)	47	39	*	0·5	3	4.1
Guernsey	48	40	33	2	2	0.0
Pembroke	42	38	*	Tr	Tr	0.1
Holyhead	40	37	35	13	2	0.0
Chester (Sealand)	36	34	30	6	6	0.0
Manchester	37	31	26	6	3	0.0
Spurn Head	42	35	*	2	—	0.0
Catterick	35	31	23	14	1	0.0
Tynemouth	40	32	30	16	2	0.0
St Abbs Head	40	34	*	0·1	2	*
Leuchars	34	29	25	–	—	0.0
Renfrew (Abbots I.)	35	23	18	–	—	0.0
Eskdalemuir	35	23	19	1	—	0.0
Point of Ayre	40	37	*	–	Tr	0.0
Tiree	42	39	36	–	1	2.1
Stornoway	39	35	*	4	1	0.6
Dalwhinnie	30	26	20	–	—	0.0
Aberdeen	32	29	27	–	2	0.0
Wick	37	32	*	–	2	*
Lerwick	42	34	*	3	5	0.0
Blacksod Point	42	36	*	0·5	0.6	*
Malin Head	42	37	*	Tr	1	1.1
Aldergrove	37	32	26	–	2	0.0
Birr Castle	37	28	18	–	—	0.0
Valentia Obsy. †	41	30	25	Tr	Tr	3.7
Roches Point	40	34	*	0·2	—	*

LONDON OBSERVATIONS
Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except for rainfall which is 9h—18h.

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h. (To-day)
Kew	18	cm,cmbc	cz°bc	bcbbcw	47	35	29	—	—	0.5	*	*	5
Croydon	217	p°bcc	ccz°	bcmwbcp	48	34	31	0.1	—	0.2	*	*	7
Greenwich (Royal Observatory)	149	c	cb	bcm	48	36	30	—	—	0.4	68	87	4
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.3	*	*	*
Westminster (St. James' Park)	27	*	*	*	49	36	28	—	—	*	70	91	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	48	35	31	—	—	0.5	63	81	*
Camden Square	110	bc	bc	*	48	35	30	—	—	*	*	86	*
Kensington	80	bc	bcb	*	49	36	29	—	—	0.9	At 18h. 65	85	*
Hampstead Observatory	450	c	bc	o	46	33	28	—	—	0.5	*	92	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 12th

SOUTH KENSINGTON.

Max.	Time.	Min.	Time.
<0.3	whole period		

KEW OBSERVATORY.

Max.	Time.	Min.	Time.
0.3	21h 11th	<0.1	2h 12th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 11th January: Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 12th January: Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours: Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris	1002.2	—	0	ir°	46	997.5	WNW	6	c	41	46	41	1	5
Brussels	1001.9	S	4	c	43	993.5	S	4	roro	43	46	41	0.1	1
Berlin	1008.8	SE	3	roro	36	1005.1	SSE	2	z°	37	37	36	0.2	Tr
Zürich						1005.8	NW	1	m	30		28		—
Rome	1015.5	SSE	4	c	57	1015.1	SSE	4	bc	55	*	*	—	—

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
THE BEAUFORT SCALE OF WIND is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	<1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	> 75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

Objects not visible at
0 Dense fog 55 yards.
1 Thick fog 220 „
2 Fog 550 „
3 Moderate fog 1,100 „
4 Mist or haze 1¼ miles.
5 Poor visibility 2½ „
6 Moderate „ 6¼ „
7 Good „ 12½ „
8 Very good „ 31 „
9 Excellent „ beyond 31m.

COLUMN 30.—Code for State of Sea.
0 Calm. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high
3 Moderate. 8 Precipitous.
4 Rough. 9 Confused.

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY, LONDON, W.C.2.

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 13th January, 1939

No. 28176

OBSERVATIONS at 13h. G.M.T. 12th January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Amount Low 0–10 (12)	Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	997·0	0	SW	3	zo	41	65	6	1	-	-	1	1	2500
	Croydon	997·5	-2	WSW	3	zo	42	65	6	1	-	-	1	1	2500
	S. Farnborough	997·2	-6	WSW	3	bc	42	75	7	1	4	1	1	4-6	2500
	Boscombe Down	997·8	-2	WS	4	zo	40	75	6	8	-	6	2-3	7-8	2500
	Calshot (Sthmtn.)	998·8	0	SWW	3	bc	42	65	7	1	4	4	Tr	2-3	2500
	Lympne	998·6	+2	SWW	3	b	41	75	7	1	-	-	Tr	Tr	1500
	Manston	997·4	+6	WSW	3	b	40	75	7	5	-	-	1	1	2500
2	Shoeburyness	997·0	0	SW	3	m	42	75	4	5	-	-	2-3	2-3	1500
	Felixstowe	996·2	+6	WN	3	b	40	75	6	5	-	-	Tr	Tr	2500
	Gorleston	995·2	0	WSW	3	bc	39	75	6	5	-	-	4-6	4-6	2500
	Mildenhall	996·0	+6	WSW	4	zo	40	75	6	5	3	-	2-3	4-6	4000
	Cranwell	994·9	-8	WS	3	zo	38	85	6	5	3	-	7-8	9+	4000
3	Birmingham	995·8	-2	WSW	3	c	39	75	6	7	3	8	2-3	7-8	2500
	Upper Heyford	996·7	-10	WS	2	bc	42	75	7	7	3	2	2-3	4-6	2500
4	Ross-on-Wye	996·5	-4	WSW	2	bc	41	65	9	1	-	2	2-3	4-6	4000
5	Hartland Point	998·1	-4	WNW	3	c	43	75	9	8	4	-	4-6	7-8	1500
	Bristol	998·0	0	WS	4	bc	41	75	7	8	7	8	2-3	4-6	2500
	Portland Bill	998·6	+6	W	3	c	44	92	8	5	-	-	7-8	7-8	2500
	Plymouth	999·7	-6	W	2	c	45	55	7	4	3	3	2-3	7-8	2500
	The Lizard	1000·1	0	WNW	3	bc	43	65	8	8	6	-	4-6	4-6	2500
	Scilly (St. Mary's)	1000·4	-2	NWW	2	c	45	65	9	8	4	3	4-6	7-8	2500
	Guernsey	999·6	0	SWW	1	c	44	75	7	8	3	-	4-6	9	1500
6	Pembroke	997·8	-4	WN	5	cq	43	75	8	2	7	-	4-6	7-8	2500
7	Holyhead	994·3	0	WN	5	c	39	85	8	8	-	-	10	10	1500
	Chester (Sealand)	994·4	-6	WS	2	c/r	41	85	8	5	7	-	7-8	9+	2500
8	Manchester	993·9	-6	SWW	3	ir	37	97	4	5	7	-	7-8	10	800
10	Spurn Head	993·2	0	SWW	3	c	38	85	6	-	3	2	0	7-8	-
	Catterick	992·0	-10	SW	2	c	35	75	8	5	4	2	Tr	7-8	4000
	Tynemouth	990·9	-12	W	3	bc	35	85	6	2	3	1	2-3	4-6	2500
11	St. Abbs Head	989·0	-8	WNW	5	cq	38	65	9	5	6	-	7-8	10	2500
	Leuchars	989·1	-16	WNW	4	c	38	75	9	8	4	6	9+	9+	2500
12	Renfrew (Abbots I.)	992·1	-14	W	1	zo	33	92	5	-	5	6	0	4-6	-
	Eskdalemuir	991·6	-10	WS	3	c	31	92	8	5	-	6	Tr	7-8	1500
	Point of Ayre	992·7	-2	WNW	2	c	43	75	7	8	3	6	2-3	9	1500
13A	Tiree	993·6	0	NE	4	bc	42	85	9	8	4	-	4-6	4-6	2500
13B	Stornoway	996·6	-10	NNE	4	c/phr	40	75	8	8	-	9	7-8	7-8	2500
15	Dalwhinnie	*	-16	N	3	is	33	92	6	3	2	-	4-6	10	2500
	Aberdeen	988·0	-6	NWN	2	c	38	97	6	8	-	-	9	9	1500
	Wick	989·9	-12	NE	6	c	42	85	7	5	7	-	7-8	9+	800
16	Lerwick	994·2	-16	ENE	6	c/pr	39	85	8	8	7	-	4-6	7-8	1500
17	Blacksod Point	997·4	-10	NW	4	c	44	85	8	9	-	-	7-8	7-8	800
18	Malin Head	999·3	-4	N	3	cjp	41	85	7	3	-	-	7-8	7-8	2500
	Aldergrove	993·7	-10	SWW	3	pr	35	97	6	8	-	-	9+	9+	1500
19	Birr Castle	997·1	-8	SSE	1	c	37	97	8	5	-	-	9	9	2500
20	Valentia Obsy. †	999·6	-12	W	3	c/phr	42	75	8	9	-	-	9+	9+	1500
	Roches Point	999·0	-6	WNW	3	bc	42	75	8	3	-	3	2-3	4-6	2500

OBSERVATIONS at 18h. G.M.T. 12th January

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Amount Low 0–10 (26)	Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
1	London (Kew)	999·0	+12	SSW	3	zo	38	85	5	-	-	2	0	1	-	1	*
	Croydon	999·3	+14	SSW	3	zo	38	75	6	-	-	1	0	1	-	1	*
	S. Farnborough	999·3	+6	WS	3	b	33	85	7	-	3	-	0	1	-	1	*
	Boscombe Down	999·6	+14	SWS	3	bc	35	85	7	5	4	1	1	2-3	2500	1	*
	Calshot (Sthmtn.)	1000·5	+14	SWW	3	b	36	85	7	-	3	2	0	1	-	1	2
	Lympne	1001·0	+16	SWW	3	zo	34	85	6	-	-	-	0	0	-	1	§ 2
	Manston	999·7	+12	SW	3	bc	34	85	6	-	7	-	0	2-3	-	1	*
2	Shoeburyness	999·5	+16	SW	4	bc	38	85	6	-	-	4	0	4-6	-	1	*
	Felixstowe	998·5	+14	SW	3	zo	37	85	6	-	7	-	0	Tr	-	1	2
	Gorleston	997·2	+12	SW	3	bc	37	85	6	5	-	-	2-3	2-3	2500	1	2
	Mildenhall	997·1	+10	SWS	4	zo	38	85	6	5	-	-	4-6	4-6	2500	1	*
	Cranwell	995·3	+10	W	4	zo	38	85	6	5	7	-	7-8	9+	2500	1	*
3	Birmingham	997·0	+6	SW	3	bc	36	85	8	5	-	1	2-3	4-6	4000	1	*
	Upper Heyford	998·4	+10	WSW	3	zo	33	85	6	-	6	1	0	2-3	-	1	*
4	Ross-on-Wye	997·8	+6	SWW	2	b	37	75	7	8	-	1	1	1	2500	1	*
5	Hartland Point	998·8	0	WNW	4	c	42	75	9	8	6	-	4-6	7-8	1500	1	3
	Bristol	999·1	+6	SSW	3	bc/pr	37	92	7	5	4	-	4-6	4-6	1500	1	*
	Portland Bill	999·5	+6	WNW	3	c	44	85	8	4	4	-	4-6	7-8	2500	1	3
	Plymouth	1000·5	+6	W	1	zo	43	65	6	5	3	-	4-6	9	2500	0	1
	The Lizard	1001·5	+12	W	3	bc	40	85	8	8	4	-	4-6	4-6	2500	1	1
	Scilly (St. Mary's)	1000·9	+2	WN	3	bc	40	65	8	8	4	-	2-3	2-3	2500	1	2
	Guernsey	1000·5	+8	-	0	bc	40	85	6	5	-	-	4-6	4-6	2500	1	2
6	Pembroke	997·9	+8	WSW	5	bc/pr	41	92	8	8	-	-	4-6	4-6	1500	1	2
7	Holyhead	994·5	+2	WN	4	c	40	85	8	8	-	8	4-6	7-8	1500	1	2
	Chester (Sealand)	995·1	+2	-	0	zo	37	85	6	5	4	-	4-6	4-6	4000	1	*
8	Manchester	994·7	+10	SWW	3	zo	36	92	6	8	3	-	4-6	9	1500	1	*
10	Spurn Head	993·7	+4	SWW	4	bc	38	92	6	5	-	-	4-6	4-6	4000	0	3
	Catterick	992·2	+2	SW	2	bc	35	85	7	5	9	2	1	4-6	2500	4	*
	Tynemouth	990·8	+4	W	3	c	34	85	6	5	-	-	7-8	7-8	2500	3	2
11	St. Abbs Head	989·1	0	WNW	5	c/pr	37	75	6	5	6	-	7-8	10	1500	0	4
	Leuchars	989·2	0	W	3	c	36	85	7	5	7	-	4-6	7-8	2500	1	*
12	Renfrew (Abbots I.)	991·9	+4	W	2	c	33	92	7	5	7	-	4-6	7-8	4000	3	*
	Eskdalemuir	991·5	-2	WS	2	c	31	92	6	5	-	6	2-3	7-8	1500	3	*
	Point of Ayre	992·3	0	NW	4	c	41	85	7	9	1	-	4-6	9	1500	1	2
13A	Tiree	993·5	0	N	6	PR	40	97	7	8	-	-	9+	9+	1500	1	4
13B	Stornoway	996·4	0	N	4	c/phr	37	85	7	8	-	-	7-8	7-8	1500	1	2
15	Dalwhinnie	992·8	+6	N	4	is	33	92	6	3	2	-	4-6	10	1500	8	*
	Aberdeen	988·2	-2	NNW	2	bc/r	36	97	6	9	-	-	4-6	4-6	1500	1	3
	Wick	989·3	-10	N	7	pr	40	75	7	8	7	-	7-8	9+	800	1	3
16	Lerwick	992·3	-8	ENE	7	c/r	40	85	7	8	2	-	4-6	10	800	1	*
17	Blacksod Point	997·7	+4	N	3	c	42	92	8	9	-	-	7-8	7-8	1500	1	3
18	Malin Head	994·2	+10	N	4	cjp	43	75	7	8	6	-	4-6	7-8	4000	1	4
	Aldergrove	993·8	+8	NWN	1	bc	35	97	7	5	-	-	4-6	4-6	1500	1	*
19	Birr Castle	996·6	+2	WSW	1	c/pr	37	97	8	5	-	-	9+	9+	2500	1	*
20	Valentia Obsy. †	999·9	+2	NWN	1	c	40	85	8	8	1	-	4-6	9	1500	*	2
	Roches Point	998·9	+2	WNW	3	bc	39	97	8	3	-	3	2-3	4-6	2500	1	2

PAST 24 HOURS.

District	Stations	Weather 7h.—13h. 12th (37)	13h.—18h. 12th (38)	18h. 12th to 1h. 13th (39)	1h.—7h. 13th (40)
1	London (Kew)	cmoWbcbmo	bcmobmo	bbcbmox	bbcx
	Croydon	cbmozo	bcbzo	bcbmox	bxcbc
	S. Farnborough	bmobbc	bcbw	bwbcx	bcxcprs
	Boscombe Down	bxmobcmo	bcmbc	bcb	b,cprbc
	Calshot (Sthmtn.)	bmo	bbcb	bbcb	bcproq
	Lympne	cbcbrno	bbmox	bmobx	bx
	Manston	cmo,bmo	bbzo	bmoxbc	bx
2	Shoeburyness	bccbcz	bczzo	bczobw	bbcx
	Felixstowe	cmo,bmo	bmobm	bmo	bm,x
	Gorleston	cbccbczo	bczo	bcbzox	bbcezox
	Mildenhall	cmobcmo	bcmo	bmob	b,cx,
	Cranwell	cmo	rosocroc	cmobx	bx
3	Birmingham	bcc	cbc	bcb	bx
	Upper Heyford	bbc	bcbmo	bmobc	c
4	Ross-on-Wye	bccbc	bc	bblbcc	cpobx
5	Hartland Point	c	cbccp	cphrl	cprbcch
	Bristol	bxbcmo	bcpo	bcprcr	cpro R
	Portland Bill	bcc	c	bcb	bc
	Plymouth	bcmbc	bcycmo	czbbc	bcb
	The Lizard	bc	bc	bc	pr bc
	Scilly (St. Mary's)	bcc	cbc	bcphr	bcpoq
	Guernsey	bcc	cbc	bcpr	bcc pr
6	Pembroke	bcvqc	cbcprq	phr lRqcirbc	bcq
7	Holyhead	c⊕	c, bc	bx prx	proc
	Chester (Sealand)	crorómo	cprobcm	. bccpro	bccpr
8	Manchester	xmd.frpr	roromprm	prpromo	sSSrsirm
10	Spurn Head	czo	czo	bcw	cbbcw
	Catterick	bccbc	bc	probc	bcx
	Tynemouth	bc	bcc	cbc	bc
11	St. Abbs Head	cq	iromc	bcq	bcssc
	Leuchars	bcxcxc	prsorobc	cirox	cxc iro
12	Renfrew (Abbots I.)	bcmo ffx	bcmo	bcxciro	rororr x
	Eskdalemuir	bcx	bcx	bx	bbcx
	Point of Ayre	roroc	cprso	cprso	cbc
13A	Tiree	probc	bcc	cprbc	bcpro
13B	Stornoway	cphrq	cphrq	bcphr	bcphr
15	Dalwhinnie	cis	cSsis	*	cis
	Aberdeen	rocrmo	cm,ir	cir iR	ircro
	Wick	Rrpr	phr pr	rrir	Rrir
16	Lerwick	cphr ir	pro ir	cprroro	rorr irs
17	Blacksod Point	prc	preq	pro c	bc
18	Malin Head	bcc	cPHRbcc	clphrcproc	cproc
	Aldergrove	b,cmo,ps	profmobc	prsopropr	promocb
19	Birr Castle	c	cpr	cbc	bcbx
20	Valentia Obsy. †	bxPHphrq	phrphoqc	cphr bc	bcphrbc
	Roches Point	bc	cprobc	bc	bcxb

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog ,, less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s_o, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s_o/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
⊕, Solar halo. Ⓘ lunar halo. Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:— Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As: Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. ,, wet.
2 .. ,, flooded.
3 .. ,, frozen hard and dry.
4 .. ,, partly covered with snow or hail.
5 .. ,, covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. ,, covered with snow, less than 6 ins., deep but ground not frozen.
8 .. ,, covered with snow, less than 6 ins., but ground frozen
9 .. ,, covered with snow greater than 6 ins. deep.

Note.—The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2

† See disturbance reported from Dungeness.

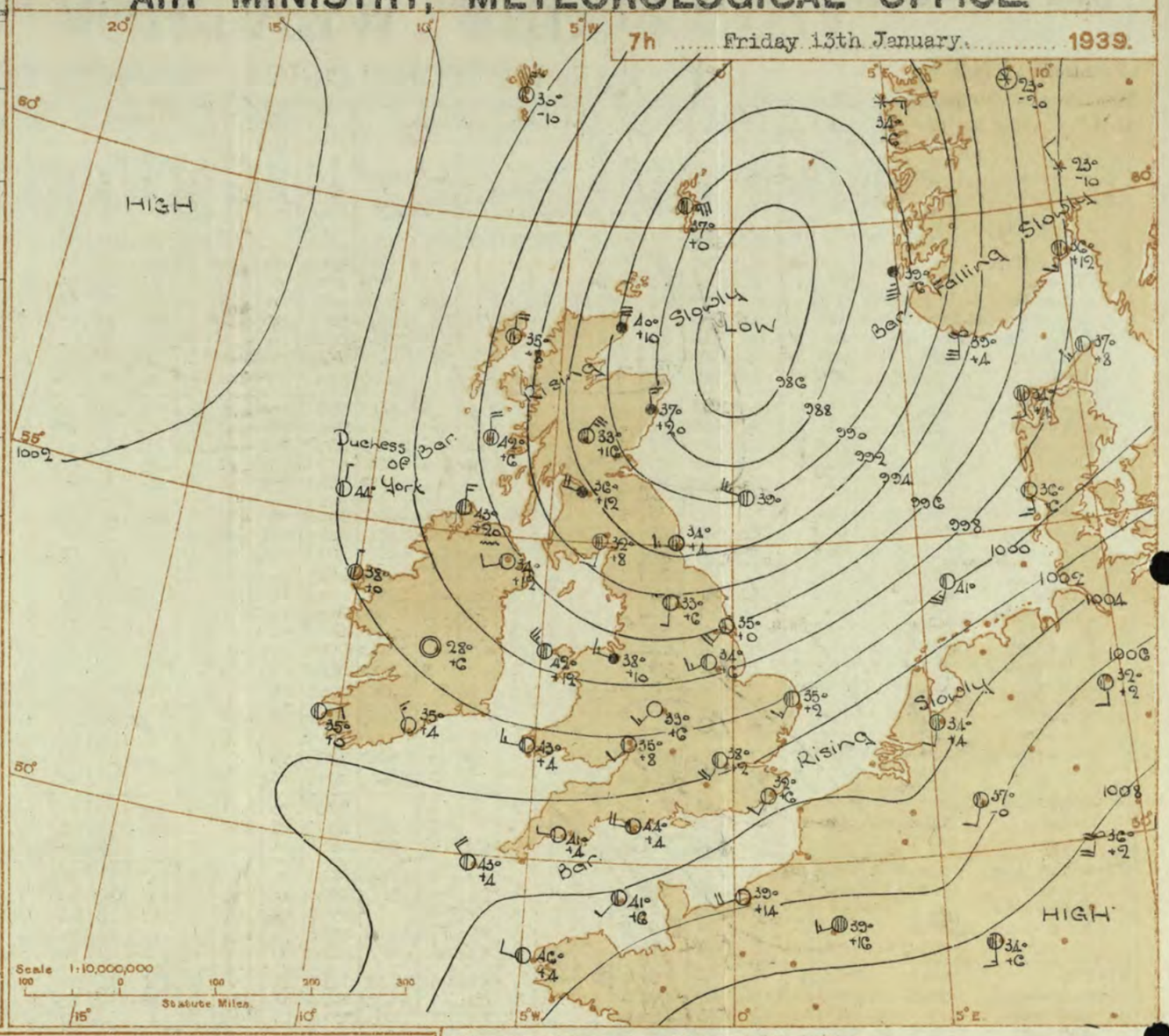
REPORTS from HEALTH RESORTS for 12th January 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F.) Min. 9h. 11th to 9h. 12th	Temperature. (°F.) Max. 9h.—17h. 12th	Rainfall. (mm.) Night. 17h. 11th to 9h. 12th	Rainfall. (mm.) Day. 9h.—17h. 12th	Sunshine (hrs) Sunrise to Sunset. 12th.
1	Tunbridge W.	ocb	bbc	32	41	-	-	5·5
	Bournemouth	b	b	32	44	-	-	6·0
	Ventnor ...	xb	bu	34	44	-	-	7·1
	Southsea ...	b	b	33	43	-	-	7·2
	Bognor Regis	b	b	32	43	-	-	7·4
	Littlehampton	bbc	bc	32	43	-	-	7·1
	Worthing ...	b	b	32	45	-	-	7·0
	Brighton ...	bc	bc	35	43	Trace	-	7·2
	Eastbourne† ...	b	b	35	45	5	-	7·2
	Hastings† ...	b	b	33	45	6	-	6·7
	Folkestone ..	m.b	b	35	43	10	-	6·3
	Dover ...	bc	bc	37	43	13	-	6·7
	Deal	cb	b	36	41	7	-	6·5
	Ramsgate ...	cbc	bc	36	42	6	-	6·7
	Margate ...	bc	bc	36	43	5	-	4·2
2	Southend ...	bm	b	33	43	Trace	-	5·2
	Clacton-on-Sea	bc	bc	33	41	-	-	2·5
	Dovercourt ...	bcr	bc	34	42	Trace	-	4·3
	Lowestoft ...	cbcb	b	34	40	0·1	-	4·2
	Skegness ...	cbcoc	bcor.	33	40	-	Trace	0·7
	Mablethorpe...	bc	bco	34	38	-	-	0·2
	Cleethorpes ...	cbc	bcc	34	38	-	-	0·1
3	Leamington S.	c	c	32	42	-	-	3·1
4	Cheltenham†	bcxc	cbcb	31	41	-	-	2·8
5	Bath	bbcc	bbcc	31	44	-	-	4·6
	Weymouth ...	b	b	33	45	-	-	6·8
	Jersey ...	rcbc	bcpcc	40	50	2	Trace	4·8
	Torquay ...	xbm.b	bbc	30	46	-	-	6·7
	Falmouth	b	b	34	47	0·2	-	5·2
	Penzance ...	b	bcchc	35	46	3	-	4·9
	St. Ives ...							
	Bude... ...	bcpr.	bc	40	45	0·3	Trace	2·9
	Ilfracombe ...	pcbc	cbcc	39	45	Trace	-	2·2
6	Aberystwyth	phcbc	bcc	36	43	2	-	2·3
7	Llandudno ...	cir.	irc	36	41	7	0·5	0·0
	Colwyn Bay...	cpc	pc	36	41	6	1	0·0
	Rhyl	cpr	cpr.c	35	41	7	0·5	0·0
8	Wallasey ...	iR	irc	34	39	4	6	0·0
	Southport ...	pccp	cpc	32	41	1	2	0·2
	Blackpool ...	cp.f	p.cm.	30	40	0·5	0·3	0·0
	Morecambe ...	xfbc	bcb	32	41	0·5	Trace	0·4
9	Ilkley... ...	cbc	cod.o	28	36	5	Trace	0·2
	Harrogate ...	bc	bc	29	35	4	-	0·0
10	Berwick-on-T.	c	c	33	37	1	-	0·1
11	Dunbar ...	bcm.	cm.ph	31	37	0·3	Trace	0·0
12	Troon... ...	xcoc	cocbc	28	40	-	-	3·4
	Douglas ...	cmirx	bcpr	34	41	0·3	0·5	3·0

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h Friday 13th January 1939.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 13th January, 1939.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ...	Wind westerly light; considerable bright periods, scattered wintry showers; local early morning fog; rather cold with frost at night.
7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland.	Wind west to northwest light to moderate; bright periods, local wintry showers; local early morning fog; rather cold with frost at night.
14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Wind northerly, fresh to strong, moderating and backing, intermittent sleet or snow; rather cold.
17 N. W. Ireland 18 N. E. Ireland	As 7 - 13B.
19 S. E. Ireland 20 S. W. Ireland	As 1 - 6.

GENERAL INFERENCE.

A depression east of Scotland is moving slowly northeast and another off Northwest Spain will probably move east. Weather will continue rather cold with sleet or snow in North and East Scotland and local wintry showers with bright periods elsewhere. Frost will occur at night.

FURTHER OUTLOOK.

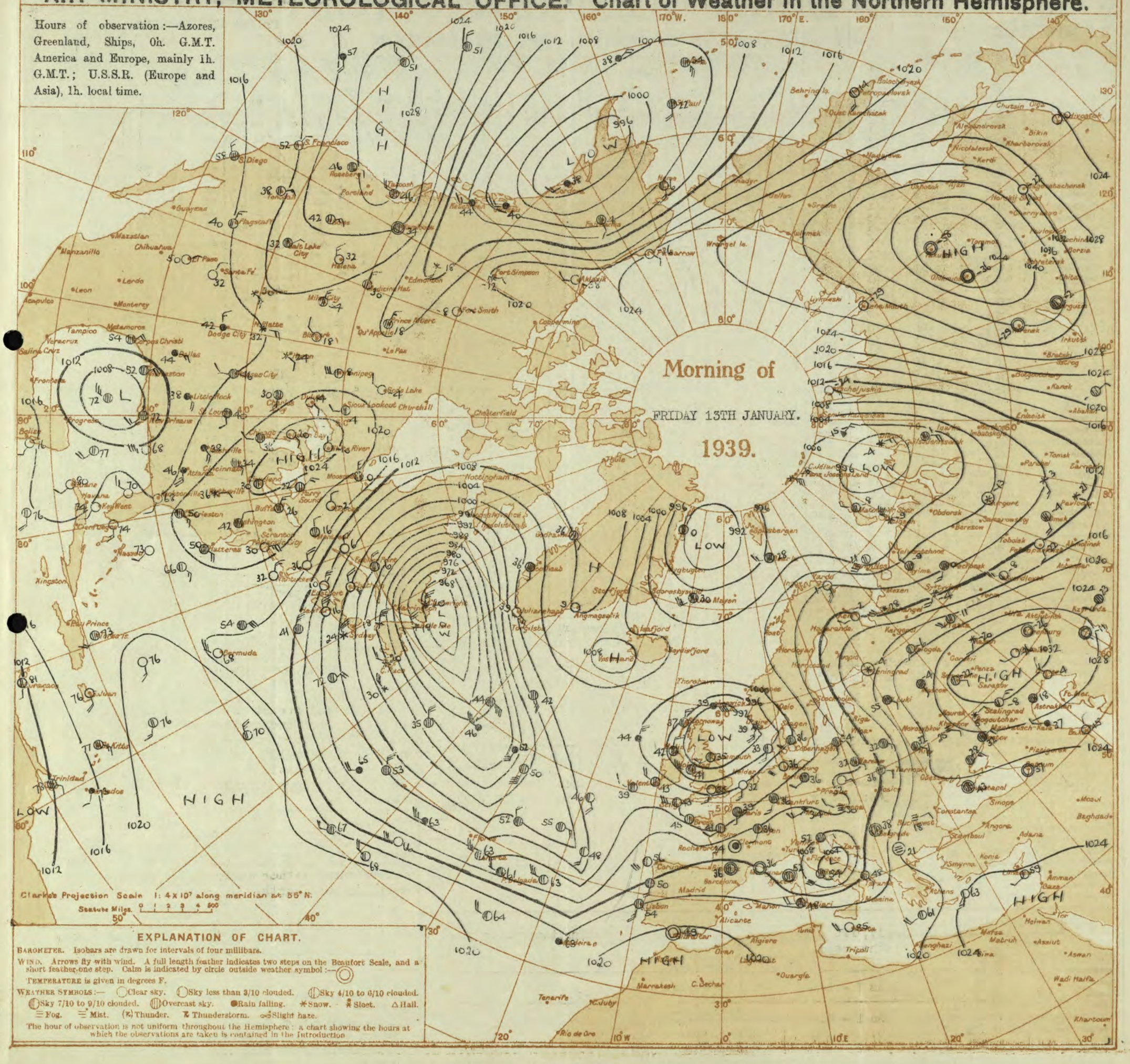
Continuing rather cold; wintry showers particularly in North.

Forecasts issued at 1000 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S.
Director.

H.M. Stationery Office Press, Kingsway, W.C.2. 6.738/1623 m.0086.d.3769.6p.948 29140. 1/39.

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS :— Clear sky. Sky less than 3/10 clouded. Sky 4/10 to 6/10 clouded. Sky 7/10 to 9/10 clouded. Overcast sky. Rain falling. Snow. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.

The hour of observation is not uniform throughout the Hemisphere : a chart showing the hours at which the observations are taken is contained in the Introduction

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 13th January, 1939.
No. 28176 LDB.

OBSERVATIONS at 1 hr. G.M.T. 13th January

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0–9 (8)	Cloud. Form. Low (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1000·4	+2	SSW	3	b	35	85	7	-	-	-	0	0	-
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1002·4	+2	WSW	2	b	33	85	8	-	3	-	0	1	-
	Manston ...	154	1001·2	+2	SWS	2	bc	33	85	7	-	7	-	0	2-3	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	999·3	+2	SWW	3	b	32	85	6	-	-	-	0	0	-
	Mildenhall ...	19	998·7	+4	SWS	3	b	34	85	7	-	-	-	0	0	-
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	998·6	-2	WNW	4	pr	43	85	8	8	-	-	9	9	1500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1000·7	+2	W	3	b	43	85	8	-	-	-	0	0	-
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1001·5	0	WSW	4	bc	43	85	8	8	-	-	4-6	4-6	2500
	Scilly (St. Mary's)	163	1001·4	-2	W	5	bc/phr	43	75	8	3	4	-	2-3	4-6	1500
	Guernsey ..	175	1001·9	+4	WSW	1	bc	41	85	6	2	-	-	4-6	4-6	2500
6	Pembroke ...	142	998·0	+4	W	5	bcq	43	92	8	8	-	-	4-6	4-6	1500
7	Holyhead ...	26	994·9	+2	WN	5	c	41	85	7	2	-	-	7-8	7-8	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	995·1	+4	SW	3	bc	35	85	6	5	-	-	2-3	2-3	4000
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	999·9	0	SW	2	bc	35	92	7	5	-	-	4-6	4-6	1500
11	St Abbs Head ..	280	988·4	-2	WNW	6	bcq	38	65	7	5	6	-	2-3	4-6	2500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotsl.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	992·7	+4	NW	4	bc	39	85	7	8	-	-	4-6	4-6	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	996·6	-8	N	4	bc	37	92	7	8	-	-	4-6	4-6	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	987·3	-4	NNE	6	ir	41	85	7	5	7	-	7-8	9+	800
16	Lerwick ...	156	989·3	18	ENE	8	r.r.	39	85	7	6	2	-	4-6	10	800
17	Blacksod Point	18	998·6	+4	N	2	bc	40	92	8	9	-	-	4-6	4-6	1500
18	Malin Head ...	84	995·3	+4	N	4	c	42	85	8	8	-	-	7-8	7-8	5700
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1000·5	0	WNW	4	c	43	97	6	5	-	-	7-8	7-8	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 13th January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Cloud. Form. Med. (24)	Cloud. Form. High (25)	Cloud. Amount. Low 0–10 (26)	Cloud. Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
London (Kew)	1001·5	+4	SW	3	c	36	85	7	5	-	-	7-8	7-8	2500	1	*
Croydon ...	1001·3	+2	SW	4	bc	38	75	7	5	4	1	2-3	4-6	4000	1	*
S. Farnborough	1001·5	+10	WSW	3	z.	35	85	6	5	3	4	4-6	4-6	4000	1	*
Boscombe Down	1001·9	+8	SWW	3	bc	35	92	7	5	3	-	1	2-3	4000	3	*
Calshot (Sthmtn.)	1002·8	+6	SWW	3	c/pr	39	85	8	3	3	-	4-6	9	1500	1	2
Lympne ...	1008·5	+6	SW	2	b	32	85	8	3	-	1	Tr	1	4000	3	§1
Manston ...	1002·2	+6	SWS	3	bc	33	85	8	3	4	1	1	2-3	4000	1	*
Shoeburyness ...	1001·6	+6	SW	3	bc	37	85	8	3	4	-	2-3	4-6	2500	1	*
Felixstowe ...	1000·8	+8	SWS	4	z.	37	85	6	5	-	8	Tr	2-3	2500	0	4
Gorleston ...	999·9	+2	SW	3	c	35	85	6	5	3	-	4-6	7-8	2500	3	2
Mildenhall ...	998·8	0	SWS	4	c	36	85	8	5	-	-	9+	9+	1500	0	*
Cranwell ...	997·0	+6	WSW	3	bc	34	92	7	5	3	-	1	2-3	2500	1	*
Birmingham ...	999·0	+6	SW	3	b	33	85	7	-	-	-	0	0	-	1	*
Upper Heyford	1000·8	+10	SWW	4	c	34	97	8	5	-	-	10	10	450	1	*
Ross-on-Wye	1000·2	+8	SW	2	b	35	85	7	4	-	-	1	1	2500	1	*
Hartland Point	1000·7	+8	ENE	4	c/phr	42	97	8	8	-	-	9	9	1500	1	3
Bristol ...	1001·1	+8	SSW	4	c	36	92	7	5	-	-	7-8	7-8	1500	1	*
Portland Bill ...	1001·8	+4	WNW	4	bc	44	85	8	5	-	-	4-6	4-6	2500	1	3
Plymouth ...	1002·5	+4	W	1	b	41	85	7	3	-	3	1	1	2500	1	1
The Lizard ...	1002·3	+8	W.	3	c	43	85	8	8	6	-	4-6	7-8	2500	1	2
Scilly (St. Mary's)	1002·6	+4	NWW	4	bc	43	75	8	3	-	-	4-6	4-6	2500	1	3
Guernsey ..	1003·6	+6	SW	1	bc/pr	41	75	9	1	3	-	2-3	4-6	2500	1	2
Pembroke ...	1000·4	+4	WNW	3	bc	43	85	8	7	-	-	4-6	4-6	1500	1	2
Holyhead ...	996·7	+12	NWW	5	c/pr	42	85	8	8	-	-	9+	9+	1500	1	2
Chester (Sealand)	996·5	+10	WN	3	pr	38	85	8	9	-	-	9+	9+	1500	1	*
Manchester ...	995·8	+6	SW	3	ir.	34	97	6	6	2	-	7-8	10	1500	6	*
Spurn Head ...	995·7	0	SW	4	bc	35	92	6	-	4	-	0	2-3	-	1	2
Catterick ...	993·5	+6	SW	1	bc	33	92	8	5	4	8	1	4-6	2500	4	*
Tynemouth ...	991·2	+4	W	3	bc	34	85	7	2	-	-	2-3	2-3	2500	1	2
St Abbs Head ..	989·1	+6	WNW	5	ss	36	75	6	3	6	-	4-6	7-8	1500	1	3
Leuchars ...	989·7	+12	WNW	4	c	37	85	8	5	-	-	9+	9+	2500	1	*
Renfrew (Abbotsl.)	993·3	+12	WNW	4	rr	36	92	7	5	-	-	10	10	1500	5	*
Eskdalemuir ...	993·1	+8	SSW	2	c	32	97	8	5	-	-	7-8	7-8	1500	3	*
Point of Ayre...	994·8	+14	NWW	4	bc	42	75	7	8	-	-	4-6	4-6	1500	1	3
Tiree	995·4	+6	NNW	4	c	42	85	8	8	-	-	7-8	7-8	1500	0	3
Stornoway ...	996·1	+8	N	4	bc	35	85	7	3	-	-	4-6	4-6	2500	1	2
Dalwhinnie ...	*	+16	NE	5	c	33	85	7	5	2	-	2-3	10	2500	8	*
Aberdeen ...	988·4	+20	NNW	3	r.r.	37	97	8	6	-	-	9+	9+	800	1	3
Wick ...	989·0	+10	N	6	ir	40	85	7	5	1	-	7-8	10	800	1	3
Lerwick ...	988·5	0	ENE	7	c/rs	37	92	7	6	2	-	4-6	10	800	2	*
Blacksod Point	999·6	0	N	1	bc	38	85	8	2	-	-	2-3	2-3	4000	1	2
Malin Head ...	997·4	+20	N	3	cjp	43	75	8	9	-	-	7-8	7-8	4000	1	4
Aldergrove ...	997·1	+12	WS	2	b	34	92	7	5	-	-	1	1	4000	1	*
Birr Castle ...	999·9	+6	-	0	b	28	97	8	-	-	-	0	0	-	3	*
Valentia Obsy. †	1001·7	0	ENE	2	bc	35	97	8	2	-	-	2-3	2-3	1500	1	2
Roches Point	1001·4	+4	NW	3	b	35	92	8	5	-	-	1	1	4000	1	2

PAST 24 HOURS.

Stations	Temperature. Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall. Day 7h–18h mm. (34)	Rainfall. Night 18h–7h mm. (35)	Sunshine 12th Hrs. (36)
London (Kew)	41	33	26	-	-	5·5
Croydon ...	43	33	29	-	-	5·9
S. Farnborough	42	32	27	-	Tr	5·8
Boscombe Down	41	29	24	-	0·3	5·2
Calshot (Sthmtn.)	45	34	30	-	0·2	7·1
Lympne ...	41	31	22	-	Tr	6·4
Manston ...	41	32	27	-	-	5·0
Shoeburyness ...	42	35	27	-	-	5·3
Felixstowe ...	42	35	32	-	-	3·8
Gorleston ...	43	31	20	-	-	3·4
Mildenhall ...	42	34	30	-	-	2·1
Cranwell ...	39	33	30	0·2	-	0·4
Birmingham ...	40	32	29	-	-	2·1
Upper Heyford	43	31	24	-	-	*
Ross-on-Wye	44	35	28	-	Tr	4·6
Hartland Point	43	40	37	Tr	1	2·8
Bristol ...	42	35	31	0·1	5	5·5
Portland Bill ...	47	40	*	-	-	*
Plymouth ...	45	36	31	-	-	4·0
The Lizard ...	45	40	*	-	0·5	4·1
Scilly (St. Mary's)	45	39	*	-	0·6	4·7
Guernsey ..	47	38	31	-	1	3·3
Pembroke ...	45	39	*	0·1	2	2·3
Holyhead ...	42	39	37	-	0·3	0·4
Chester (Sealand)	41	35	29	2	0·1	0·0
Manchester ...	38	33	30	1	9	0·0
Spurn Head ...	38	34	*	-	Tr	0·2
Catterick ...	37	30	24	-	Tr	1·9
Tynemouth ...	36	33	29	-	-	2·1
St Abbs Head ..	39	35	*	Tr	Tr	*
Leuchars ...	38	33	30	1	0·3	1·1
Renfrew (Abbotsl.)	37	29	22	Tr	3	4·0
Eskdalemuir ...	35	24	20	-	-	2·7
Point of Ayre...	43	37	*	1	1	2·4
Tiree	42	39	37	0·6	1	5·0
Stornoway ...	41	35	*	2	1	0·3
Dalwhinnie ...	34	31	31	7	7	0·0
Aberdeen ...	38	34	32	1	7	0·1
Wick ...	43	35	*	2	14	*
Lerwick ...	40	35	*	2	7	1·4
Blacksod Point	46	35	*	3	Tr	*
Malin Head ...	44	39	*	3	2	0·3
Aldergrove ...	36	31	27	0·2	3	0·4
Birr Castle ...	38	28	17	1	-	1·2
Valentia Obsy. †	44	35	30	3	5	0·7
Roches Point	43	33	*	0·1	-	*

LONDON OBSERVATIONS

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except for rainfall which is 9h—18h.

	Height above M.S.L. in feet.	Weather Morning. (24 hrs. ended 9h.)	Weather Afternoon.	Weather Night.	Temperature. Day Max. °F.	Night Min. °F.	Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset hrs. (Yesterday.)	Humidity. 9h G.M.T. % (Yesterday.)	Humidity. 9h G.M.T. % (To-day.)	Visibility 9h. (To-day.)
Kew...	18	cm.wbc	bcm.b	bcm.bcx	41	33	26	-	-	5·5	*	*	5
Croydon	217	cbm.z.	bcbz.	bcm.xbc	43	33	29	-	-	5·9	*	*	6
Greenwich (Royal Observatory)...	149	ebm	bm.	bcbxm.	42	31	24	-	-	4·7	70	79	5
City (Bushill Row)	—	*	*	*	*	*	*	*	*	2·7	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	43	37	29	-	-		77	85	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*	43	35	30	-	-	4·5	73	81	*
Camden Square	110	bc	b	*	42	35	30	-	-	*	*	81	*
Kensington	80	bc	bc	*	43	35	28	-	-	4·5	At 18h. 76	81	*
Hampstead Observatory	450	0	bc	bc	41	33	27	-	-	5·2	*	91	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 13th

South Kensington.

Max.	Time.	Min.	Time.
0·3	17-20h 12th	<0·3	1-3h 13th

Kew Observatory.

Max.	Time.	Min.	Time.
0·4	19h 12th	0·1	1-6h 13th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 12th January. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 13th January. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
Paris	1003·1	S	3	ir.	43	1006·1	WSW	3	0	39	46	37	Tr	3
Brussels	1001·5	WSW	2	b	36						45		1	
Berlin	1002·6	SE	3	c	37	1007·0	SSW	1	r.r.	36	39	34	Tr	2
Zürich	1009·0	WNW	1	r	36	1008·0	S	4	z.	36	39	*	Tr	-
Rome	1010·9	SSE	7	c	57	1012·5	NNW	2	c	50	*	*	-	*

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	<1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	> 75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

		Objects not visible at
0	Dense fog	55 yards.
1	Thick fog	220 ,,
2	Fog	550 ,,
3	Moderate fog	1,100 ,,
4	Mist or haze	1¼ miles.
5	Poor visibility	2½ ,,
6	Moderate ,,	6½ ,,
7	Good ,,	12½ ,,
8	Very good ,,	31 ,,
9	Excellent ,,	beyond 31m.

COLUMN 30.—Code for State of Sea.

0	Calm.	5	Very rough.
1	Smooth.	6	High.
2	Slight.	7	Very high
3	Moderate.	8	Precipitous.
4	Rough.	9	Confused.

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY, LONDON, W.C.2.

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 14th January, 1939.

No. 28177

OBSERVATIONS at 13h. G.M.T. 13th January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°Temp. F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1002.4	0	SW	3	z_o	43	75	6	8	3	–	2-3	2-3	4000
	Croydon ...	1002.5	0	SW'W	4	b	45	65	6	1	6	–	1	1	4000
	S. Farnborough	1002.6	−2	WSW	4	b	45	75	8	8	4	–	1	2-3	7200
	Boscombe Down	1003.1	0	W'S	3	c	43	75	8	8	7	–	4-6	7-8	2500
	Calshot (Sthmtn.)	1003.6	−4	SW'W	4	bc	47	65	8	3	5	–	2-3	2-3	2500
	Lympne ...	1003.4	−6	SW'W	4	bc	43	75	8	3	6	3	4-6	4-6	2500
	Manston ...	1002.7	−2	SW'W	4	b	43	75	8	2	3	3	Tr	1	2500
2	Shoeburyness ...	1002.4	+2	SW	3	b	45	75	6	–	4	–	0	Tr	–
	Felixstowe ...	1001.8	−2	SW'W	4	z_o	42	75	6	–	–	–	0	0	–
	Gorleston ...	1000.6	0	SW'W	4	bc	41	75	6	5	4	–	1	2-3	2500
	Mildenhall ...	1000.2	−2	SW'W	4	z_o	41	75	6	7	–	–	2-3	2-3	4000
	Cranwell ...	998.9	+6	WNW	4	z_o	39	85	6	5	4	3	1	4-6	4000
3	Birmingham ...	1000.3	+4	W	3	b	41	75	6	7	–	–	1	1	1500
	Upper Heyford	1001.8	+2	WSW	3	z_o	40	85	6	5	–	–	Tr	Tr	800
4	Ross-on-Wye	1001.7	+6	WSW	2	b	44	65	8	7	–	–	1	1	4000
5	Hartland Point	1002.2	+6	WNW	3	c	45	85	8	8	6	–	7-8	7-8	1500
	Bristol ...	1002.8	+2	SW	3	bc	42	85	8	8	–	–	4-6	4-6	2500
	Portland Bill ...	1003.5	+4	W	3	c	46	85	8	2	6	–	4-6	7-8	2500
	Plymouth ...	1003.4	−4	–	0	z_o	45	75	5	1	–	5	2-3	7-8	2500
	The Lizard ...	1003.4	0	SW'W	2	c	46	75	8	8	4	–	4-6	7-8	2500
	Scilly (St. Mary's)	1003.0	−2	SW'S	1	c	46	65	9	2	1	–	2-3	9+	2500
	Guernsey ...	1004.3	−4	SW	2	c	45	85	7	8	2	–	4-6	9+	2500
6	Pembroke ...	1002.1	+2	W'N	2	c	45	85	8	2	4	–	4-6	7-8	2500
7	Holyhead ...	999.5	+6	W'N	4	bc	45	75	8	2	–	–	2-3	2-3	2500
	Chester (Sealand)	999.3	+8	WSW	3	bc	44	75	8	8	–	–	2-3	2-3	2500
8	Manchester ...	998.6	+6	WSW	3	z_o	42	85	5	2	3	–	4-6	4-6	2500
10	Spurn Head ...	997.0	+10	W'S	4	bc	40	85	6	–	3	3	0	4-6	–
	Catterick ...	995.7	+4	W'N	5	c	39	85	8	8	3	–	7-8	7-8	2500
	Tynemouth ...	994.2	+12	W	3	c/r	36	85	6	5	–	–	9+	9+	2500
11	St. Abbs Head ...	993.0	+20	W	6	cq	39	75	7	4	6	–	4-6	7-8	1500
	Leuchars ...	994.1	+16	W	3	c	36	85	9	3	4	3	2-3	9+	2500
12	Renfrew (Abbotsl.)	996.6	+10	W'N	3	bc	41	75	9	1	4	2	Tr	2-3	4000
	Eskdalemuir ...	996.0	+26	–	0	c	36	85	7	5	–	6	7-8	9	1500
	Point of Ayre ...	997.9	+10	NW	4	c	41	92	8	8	–	6	4-6	7-8	2500
13A	Tiree	997.4	+4	NW'W	2	bc	41	85	8	8	6	–	2-3	2-3	2500
13B	Stornoway ...	996.2	0	NNW	2	bc	38	92	8	8	–	3	2-3	2-3	2500
15	Dalwhinnie ...	*	+12	N	2	bc	34	85	8	4	6	–	2-3	4-6	2500
	Aberdeen ...	991.4	+10	NW	4	c	39	85	7	–	7	–	0	9+	–
	Wick ...	991.7	+10	NNW	4	c	39	75	7	5	1	2	4-6	9+	1500
16	Lerwick ...	988.7	+2	NNW	5	ir	39	85	8	8	2	–	4-6	9+	1500
17	Blacksod Point	999.6	+4	S	2	bcjp	44	92	8	2	–	–	2-3	2-3	1500
18	Malin Head ...	998.5	+2	W	3	bc	43	75	8	2	–	2	2-3	4-6	5700
	Aldergrove ...	999.0	+6	WSW	2	b	40	75	7	3	–	–	Tr	Tr	2500
19	Birr Castle ...	1000.9	+4	S	1	c	36	97	8	4	–	–	7-8	7-8	1500
20	Valentia Obsy. †	1001.2	−6	SE	3	bc	43	75	9	3	–	4	1	4-6	2500
	Roches Point	1001.6	−2	S'W	1	bc	46	85	8	5	4	1	1	2-3	1500

OBSERVATIONS at 18h. G.M.T. 13th January

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°Temp. F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
1	London (Kew)	1004.4	+10	S'W	2	z_o	38	85	5	–	–	1	0	1	–	1	*
	Croydon ...	1004.3	+10	W'S	3	m	37	85	4	4	–	–	Tr	Tr	4000	1	*
	S. Farnborough	1004.6	+6	–	0	z_o	35	85	6	4	–	1	Tr	1	4000	1	*
	Boscombe Down	1004.4	+10	–	0	bc	37	85	7	5	7	–	1	2-3	4000	1	*
	Calshot (Sthmtn.)	1005.1	+10	SSW	1	bc	40	92	7	–	7	2	0	2-3	–	1	1
	Lympne ...	1006.4	+6	SW'W	4	bc	36	85	7	3	6	–	2-3	4-6	2500	1	§3
	Manston ...	1004.9	+10	SW	3	b	35	92	7	5	–	1	Tr	1	2500	1	*
2	Shoeburyness ...	1004.8	+14	SW	2	b	38	85	6	–	–	–	0	0	–	1	*
	Felixstowe ...	1004.0	+10	SW	3	z_o	37	85	6	–	–	–	0	0	–	0	2
	Gorleston ...	1003.1	+20	SW	3	bc	38	75	6	–	4	–	0	2-3	–	1	2
	Mildenhall ...	1003.5	+22	SW	3	b	35	85	6	–	–	–	0	0	–	1	*
	Cranwell ...	1002.0	+18	W'N	3	b	37	85	7	5	–	–	Tr	Tr	4000	1	*
3	Birmingham ...	1003.6	+14	WSW	2	b	36	85	6	–	–	–	0	0	–	1	*
	Upper Heyford	1004.2	+14	–	0	z_o	33	97	6	–	–	8	0	Tr	–	1	*
4	Ross-on-Wye	1003.6	+6	S	1	b	36	85	7	5	–	–	Tr	Tr	2500	1	*
5	Hartland Point	1002.5	0	W	3	c	42	85	8	8	6	–	7-8	9	1500	1	3
	Bristol ...	1004.0	+2	SSW	2	bc	38	85	7	8	–	–	4-6	4-6	2500	1	*
	Portland Bill ...	1003.4	+8	W	3	c	45	85	8	5	–	–	7-8	7-8	2500	1	3
	Plymouth ...	1003.8	+2	ENE	1	m	39	85	4	–	–	8	0	2-3	–	1	1
	The Lizard ...	1002.9	−6	N'W	2	bc	41	85	8	8	–	–	4-6	4-6	2500	1	2
	Scilly (St. Mary's)	1002.1	−6	E	2	bc	40	75	8	4	4	–	1	2-3	2500	1	2
	Guernsey ...	1004.0	−2	SSW	1	o	44	92	6	5	–	–	10	10	2500	1	2
6	Pembroke ...	1002.2	+2	SW	2	bc	44	97	8	2	7	–	4-6	4-6	1500	1	2
7	Holyhead ...	1001.9	+14	SW'W	2	bc	39	85	7	2	–	–	2-3	2-3	2500	1	1
	Chester (Sealand)	1002.4	+12	SSW	2	z_o	36	85	6	–	–	–	0	0	–	1	*
8	Manchester ...	1001.9	+18	SW'W	3	z_o	36	92	6	8	3	–	2-3	4-6	2500	1	*
10	Spurn Head ...	1000.2	+14	W	5	c	39	85	6	5	–	–	10	10	2500	0	3
	Catterick ...	1000.0	+22	WSW	2	bc	36	85	8	6	4	–	2-3	4-6	1500	4	*
	Tynemouth ...	998.9	+20	W	3	bc	35	85	6	5	–	–	4-6	4-6	1500	1	1
11	St. Abbs Head ...	997.1	+14	W	4	b	39	65	7	4	4	–	Tr	1	2500	0	3
	Leuchars ...	997.5	+18	WSW	2	b	33	85	5	–	–	–	0	0	–	1	*
12	Renfrew (Abbotsl.)	999.2	+14	–	0	b	33	92	8	–	–	–	0	0	–	1	*
	Eskdalemuir ...	999.9	+20	SW'W	1	b	31	85	7	5	–	–	Tr	Tr	1500	3	*
	Point of Ayre ...	1000.5	+16	NW	3	b	41	85	7	2	–	–	Tr	Tr	2500	1	2
13A	Tiree	998.1	+4	W	2	bc	34	97	8	8	–	–	2-3	2-3	1500	0	2
13B	Stornoway ...	998.3	+6	–	0	bc/br	35	92	8	8	6	3	2-3	4-6	2500	1	0
15	Dalwhinnie ...	*	+14	N	1	bc	30	85	8	–	4	–	0	2-3	–	9	*
	Aberdeen ...	995.8	+22	NW'W	3	b	35	85	7	5	–	–	Tr	Tr	4000	1	2
	Wick ...	994.0	+18	NW	3	bc	35	85	8	5	4	1	2-3	4-6	1500	1	2
16	Lerwick ...	989.7	+2	NNW	5	c	36	92	8	8	2	–	4-6	7-8	1500	1	*
17	Blacksod Point	999.6	−2	SSE	2	bc	40	92	8	2	–	–	2-3	2-3	1500	1	2
18	Malin Head ...	999.2	+6	SW	1	bc	37	85	8	4	–	1	2-3	4-6	5700	0	3
	Aldergrove ...	1000.8	+12	SW	1	b	34	97	7	–	–	–	0	0	–	1	*
19	Birr Castle ...	1001.1	0	S	1	b	36	97	7	–	–	–	0	0	–	1	*
20	Valentia Obsy. †	1000.8	−4	SE/E	1	bc	37	92	9	3	4	6	1	4-6	2500	1	2
	Roches Point	1001.5	+4	N	1	bc	38	92	8	–	–	5	0	4-6	–	1	1

PAST 24 HOURS.

District	Stations	Weather 7h.—13h. ...13th... (37)	Weather 13h.—18h. ...13th... (38)	Weather 18h.—13h. 1h. 14th. (39)	Weather 1h.—7h. ...14th... (40)
1	London (Kew)	bcxbcm.	bcm.bm	bc fofc	o Fc
	Croydon ...	cxz.bbv	bcbz.z	bmfbmx	bmxbfx
	S. Farnborough	bcbbcb	bbcbw	bwfx	bfxc
	Boscombe Down	bc	bcm.b	bbm.x	bcfx
	Calshot (Sthmtn.)	cbcb	bbcb	bm.xbfm	bmcm.
	Lympne ...	bxcprbc	bcpr.	bxb	cir r.bx
	Manston ...	bxbcpr	bbcb	bbx	bxbcm.
2	Shoeburyness ...	bccbz.	bbcbz.w	bz.yx	bxf F
	Felixstowe ...	bm.cm.b	bm.w	bm.w/bmx	bmx, F
	Gorleston ...	cbc z.x	bccbc	bcbx	bbcz.x
	Mildenhall ...	cx, bbc	bcm.b	bm.bmx	bbcm.x
	Cranwell ...	bccxpr	bcm.b	bbx	bxff
3	Birmingham ...	bcpr	b	bx	bxf
	Upper Heyford	cbcm.	bm.z.m	bm.m	bfx
4	Ross-on-Wye	b	bm.xm	bffx	
5	Hartland Point	cphr	cphr	cbc	bcc
	Bristol ...	cPbcc	bcbbc	bc bf	bfo fex
	Portland Bill ...	bc	c	c	c
	Plymouth ...	bm.bcm	bcm.cbcm	bcmbbc	bccd.m.c
	The Lizard ...	bcc	cbc	bcc	c
	Scilly (St. Mary's)	bcc	cbc	bcc	c
	Guernsey ...	bccpr	co	oir.c	co
6	Pembroke ...	bcc	cbcx	bcpr.	bccq
7	Holyhead ...	cpr.b	bm.bc	bcxm.b	b,c
	Chester (Sealand)	cPRpcbc	bcbz.m	bwm.x	bxcm.⊕
8	Manchester ...	r.Gmbcm	bcpr.cm	bcbm.xf	bm.fxcm
10	Spurn Head ...	cprc	c	cbcbw	bwmc
	Catterick ...	bc	cpr.bc	bcbxm	bxfw
	Tynemouth ...	bccir	cbc	bc	bcx
11	St. Abbs Head ...	c	bcb	b	bbc
	Leuchars ...	circ	c.bxv	bvx	bbcxm.
12	Renfrew (Abbotsl.)	rrr.bc	bcb	bm.cbf	fcbmx
	Eskdalemuir ...	os.s.o	cbcbx	bxm.	bbccx
	Point of Ayre ...	bcprc	cbcb	b	bbcc
13A	Tiree	cbc	prbc	cPR	cr.c
13B	Stornoway ...	bc	bcpr	bbc	bccpr.
15	Dalwhinnie ...	cs.s.	bciso	*	bc
	Aberdeen ...	r.Gcir	cbcb	bbx	bxm.
	Wick ...	ircpr	pr.bc	cprsc	bc
16	Lerwick ...	crrlr	cinpr	cbc	bccpsh
17	Blacksod Point	prc	prbc	bc	pr.c
18	Malin Head ...	cbc	bc	bc	bcc
	Aldergrove ...	b	b	b bx F	F b,c
19	Birr Castle ...	bbcc	cb	b	bbccx
20	Valentia Obsy. †	bcxbbc	bcbbc	bcc	cr.d.d.
	Roches Point	bbc	bc	bcx	bccir.

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s_o, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s_o/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain.
rr, continuous rain.
<, less than (for cloud height). gale.
⊕, Solar halo. ☾ lunar halo. Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. „ wet.
2 .. „ flooded.
3 .. „ frozen hard and dry.
4 .. „ partly covered with snow or hail.
5 .. „ covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. „ covered with snow, less than 6 ins., deep but ground not frozen.
8 .. „ covered with snow, less than 6 ins., but ground frozen
9 .. „ covered with snow greater than 6 ins. deep

NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

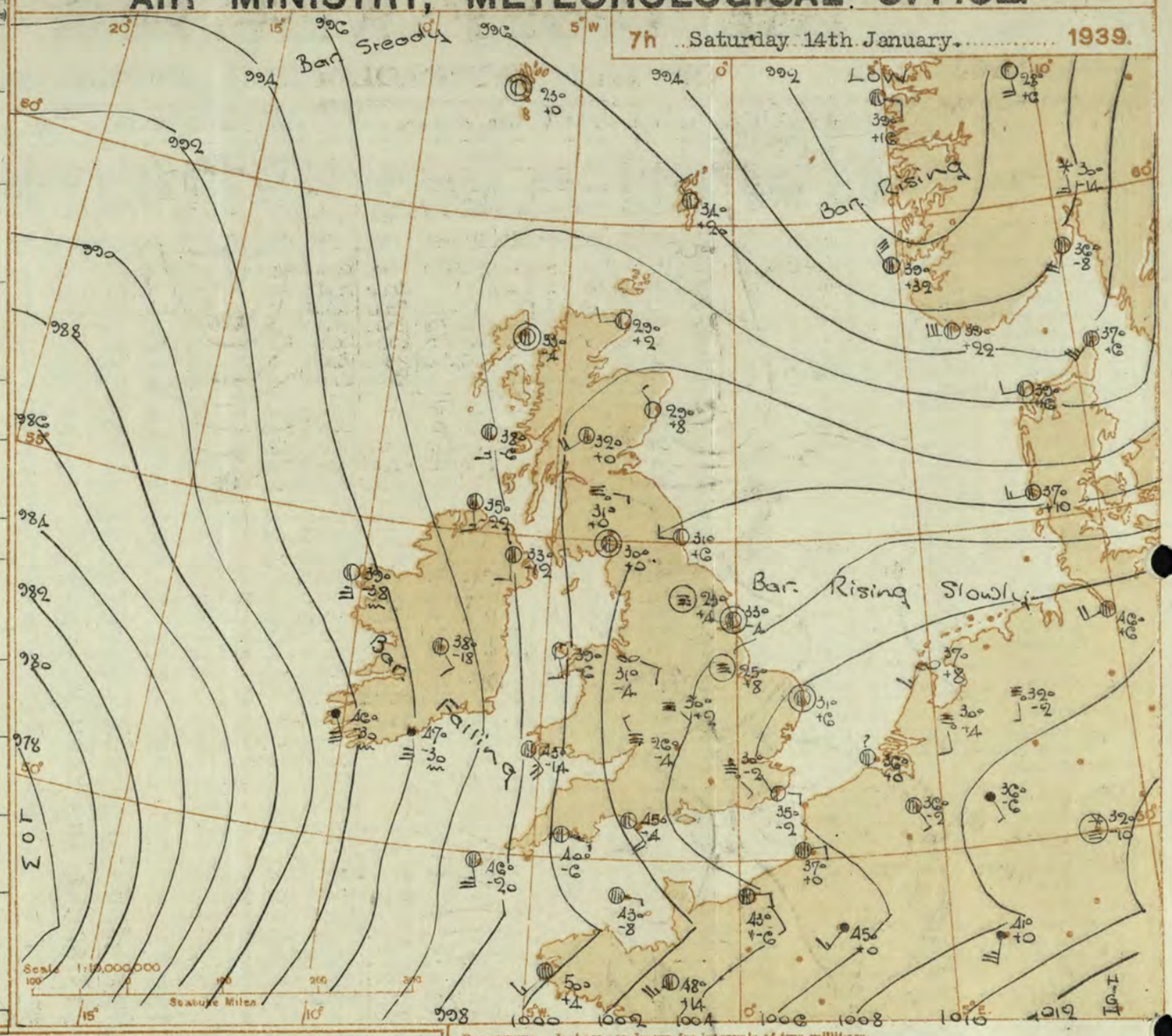
§ Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 13th January 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F.) Min. 9h. 12th. to 9h. 13th	Temperature. (°F.) Max. 9h.—17h. 13th	Rainfall. (mm.) Night. 17h. 12th. to 9h. 13th.	Rainfall. (mm.) Day. 9h.—17h. 13th.	Sunshine. (hrs) Sunrise to Sunset. 12th.
1	Tunbridge W.	b	bbcb	25	45	Trace	—	5.1
	Bournemouth	b	b	33	46	Trace	—	5.8
	Ventnor ...	phcb	bbcu	37	47	3	—	3.9
	Southsea ...	b	b	34	46	Trace	—	5.5
	Bognor Regis	bccbc	rbcc	35	49	0.3	Trace	4.7
	Littlehampton	bc	bc	30	47	0.1	—	4.6
	Worthing ...	cbcb	b	32	48	1	—	3.6
	Brighton ...	bc	pbc	31	46	1	Trace	3.0
	Eastbourne† ...	cp.c	cp.c	33	46	—	0.3	1.5
	Hastings† ...	cbc	cp.bc	34	46	—	Trace	2.1
	Folkestone ..	m.bcr	bc.bc	33	45	—	Trace	4.4
	Dover ...	bcpbc	bc	34	46	—	Trace	4.0
	Deal	bc.b	bc	33	44	—	Trace	6.0
	Ramsgate ...	bc	bc	35	45	—	—	5.6
	Margate ...	cp.bc	bc	35	46	—	0.3	5.4
2	Southend ...	b	b	34	46	Trace	—	6.2
	Clacton-on-Sea	xbc	bcm	35	42	—	—	4.2
	Dovercourt ...	xbc	bc	33	43	—	—	5.7
	Lowestoft ...	b	b	33	41	Trace	—	6.4
	Skegness ...	cbos.	b	32	40	—	Trace	3.7
	Mablethorpe...	bc	b	32	41	—	—	3.4
	Cleethorpes ...	bc	bc	34	40	Trace	—	3.9
3	Leamington S.	b	bcb	32	42	Trace	—	5.5
4	Cheltenham†	bzxb	bbz.	34	42	0.3	—	6.5
5	Bath	bbcc	cbcb	34	44	2	—	3.8
	Weymouth ...	b	b	35	47	—	—	5.4
	Jersey ...	rc	co	39	46	6	—	0.1
	Torquay ...	b	bbcbm	31	47	—	—	4.3
	Falmouth	b	c	35	47	Trace	—	3.5
	Penzance ...	bbc	cbcb	35	46	0.5	—	2.8
	St. Ives ...							
	Bude... ...	bc	bc	41	46	2	—	4.8
	Ilfracombe ...	hocpo	oiho	40	46	3	3	0.0
6	Aberystwyth	phbc	bcc	40	43	—	Trace	4.9
7	Llandudno ...	b	b	35	44	3	—	5.9
	Colwyn Bay...	bcc	bcb	37	44	4	—	3.3
	Rhyl	cprbc	bcb	37	44	3	0.3	5.1
8	Wallasey ...	cbccp	bc	36	44	5	Trace	3.9
	Southport ...	bbc	bcb	36	45	8	—	4.8
	Blackpool ...	bm.	cbcm.	33	43	6	—	5.6
	Morecambe ...	bc	irhbc	32	43	1	1	2.0
9	Ilkley... ...	bcb	cpcbc	28	41	3	0.5	4.8
	Harrogate ...	b	bbcc	29	39	1	—	5.3
10	Berwick-on-T.	c	m.bo	32	40	0.5	—	1.7
11	Dunbar ...	chrs	cm.	31	39	1	1	0.3
12	Troon... ...	xrcbc	bcc	28	43	1	Trace	3.5
	Douglas ...	cpr	b	36	42	3	—	6.5

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.-9h.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 14th January, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Freshening southeast wind, veering southwest, becoming strong to to gale tomorrow; cloudy, occasional slight rain, a period of heavier rain tomorrow; local fog at first; temperature rising slowly.
5 S.W. England ↓ 6 South Wales ... ↓ 7 North Wales ... ↓	Wind south veering southwest, becoming strong to gale; cloudy, rain at times; mild.
8 N.W. England ↓ 9 N. Midlands ...	As 1 - 4.
10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man. ↓ 13 { A. W. Scotld. ↓ B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland	Freshening southeast wind; becoming strong to gale later; fair at first, apart from local fog; some rain or sleet later with perhaps snow on high ground, cold, becoming milder tomorrow.
16 Orkney and Shetland	Light variable wind becoming strong southeast; fair today, rain or sleet tomorrow; cold.
17 N. W. Ireland ↓ 18 N. E. Ireland ↓ 19 S. E. Ireland ↓ 20 S. W. Ireland ↓	As 5 - 7.

H.M. Stationery Office Press, Kingsway, W.C.2. 6736/1622 m 8066 D 3763 Gp 248 28140 1/39.

GENERAL INFERENCE.

A deep depression is moving northeast on the Atlantic. Unsettled milder weather will spread to all districts but temperature will be low for another 24 hours in the Northeast.

FURTHER OUTLOOK.

Rather mild and very unsettled with strong winds or gales; some bright intervals.

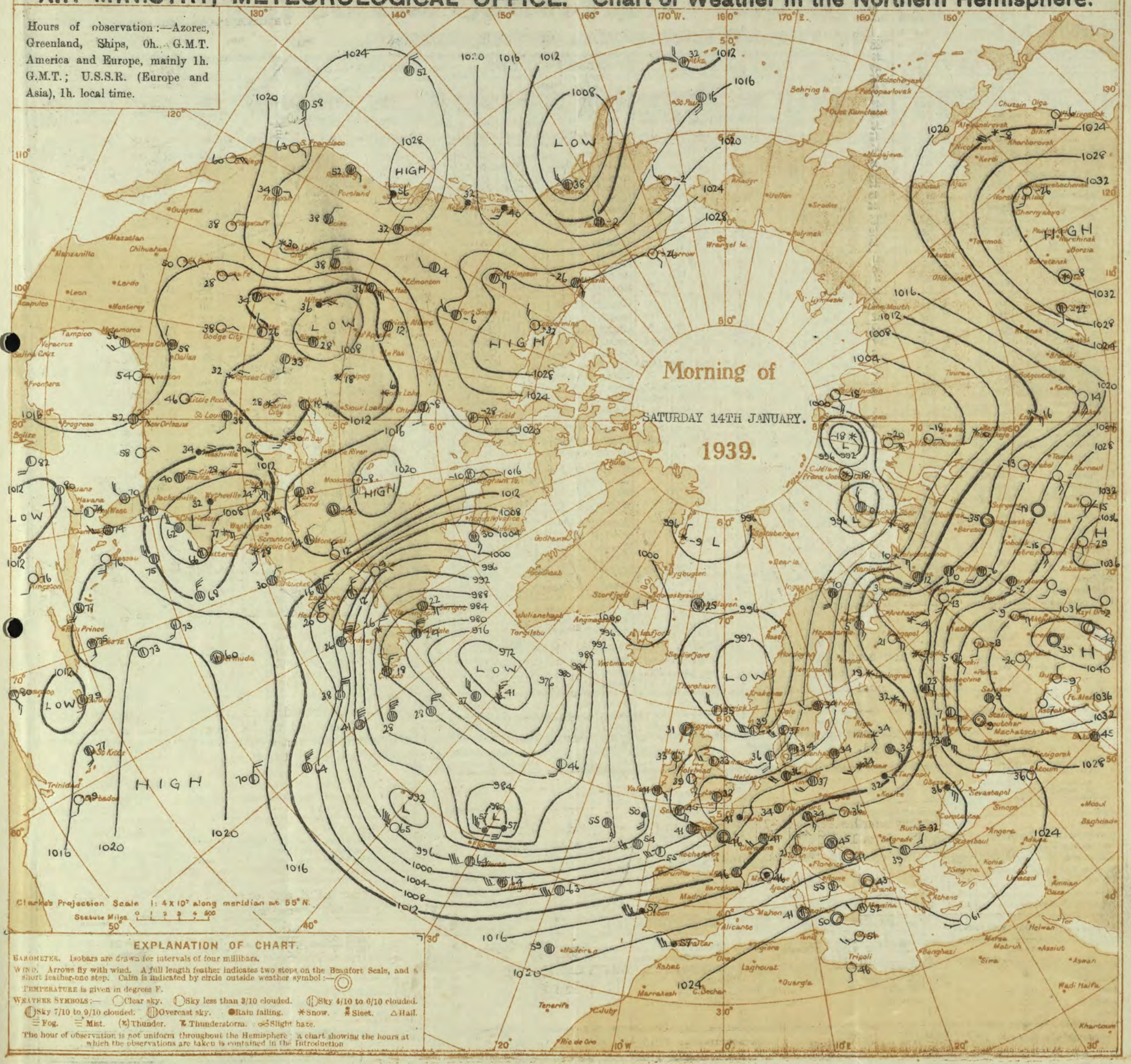
Time of issue of Gale Warning.

↓ South cone hoisted at 0810 on 14th in districts 5,6,7,8, 12, 13A, 17, 18, 19, 20.

Forecasts issued at 1000 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S.
Director.

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 14th January, 1939.

No. 28177

OBSERVATIONS at 1 hr. G.M.T. 14th January

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1005·3	+2	S	2	m	32	92	4	–	–	5	0	4–6	–
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1006·9	+2	SW	2	rr	37	92	6	6	–	–	9+	9+	1500
	Manston ...	154	1005·5	+2	SW	1	b	34	92	7	–	–	–	0	0	–
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1005·7	+10	WS	2	b	32	85	6	–	–	–	0	0	–
	Mildenhall ...	19	1004·9	+10	SSW	1	z₀	29	97	5	–	–	–	0	0	–
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1002·1	–4	SE	3	bc	38	85	8	5	–	–	4–6	4–6	1500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1003·1	–4	S	3	c	44	85	8	4	–	–	7–8	7–8	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1002·0	–4	SE	3	c	44	92	8	8	2	–	7–8	9+	2500
	Scilly (St. Mary's)	163	1001·1	–10	SE'S	4	c	45	85	8	5	7	–	4–6	7–8	1500
	Guernsey ..	175	1002·5	–4	E'S	2	c	43	85	6	–	1	–	0	10	–
6	Pembroke ...	142	1002·2	0	SSE	3	bc	39	97	7	8	–	–	4–6	4–6	1500
7	Holyhead ...	26	1001·6	–6	SE	3	b	39	97	7	2	–	–	Tr	Tr	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1003·6	+16	W'S	3	b	34	97	6	–	–	–	0	0	–
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1001·5	+10	W	3	bc	33	85	6	5	–	–	2–3	2–3	1500
11	St Abbs Head ..	280	1000·2	+10	WNW	2	b	38	75	8	–	1	–	0	Tr	–
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1001·4	+4	SWS	2	b	32	92	8	5	–	–	Tr	Tr	4000
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	998·5	0	–	0	bc	31	92	7	5	–	–	2–3	2–3	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	997·2	+12	WNW	3	bc	31	92	8	5	4	–	2–3	2–3	1500
16	Lerwick ...	156	993·5	+16	NW	4	bc	35	85	8	8	–	–	4–6	4–6	1500
17	Blacksod Point	18	997·6	–12	SSE	3	bc	40	92	8	2	–	–	2–3	2–3	1500
18	Malin Head ...	84	998·9	–4	S.	2	bc	33	92	7	8	–	–	4–6	4–6	5700
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	996·8	–10	ESE	3	0	41	92	7	5	–	–	10	10	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 14th January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1004·5	+2	–	0	f	31	92	1	*	*	*	10	10	<150	1	*
Croydon ...	1004·5	–2	SE'S	1	m/f	30	97	4	5	4	5	Tr	4–6	4000	3	*
S. Farnborough	1004·2	+2	–	0	cf	29	97	3	5	–	–	9+	9+	1500	3	*
Boscombe Down	1003·7	0	E	2	bcf	31	97	3	–	3	–	0	2–3	–	3	*
Calshot (Sthmtn.)	1004·1	0	ENE	3	z₀	38	92	6	5	3	–	7–8	9	2500	1	2
Lympne ...	1006·1	–2	E'S	2	bc	35	97	7	8	7	3	2–3	4–6	2500	1	§2
Manston ...	1005·5	+2	E'N	1	z₀	34	92	5	5	7	6	2–3	7–8	2500	1	*
Shoeburyness ...	1005·0	–4	N	1	bF	28	97	1	–	–	–	0	0	–	3	*
Felixstowe ...	1005·4	–2	–	0	F+	28	97	1	–	–	–	10	10	<150	3	1
Gorleston ...	1006·1	+6	–	0	bc	31	85	6	–	7	–	0	4–6	–	3	1
Mildenhall ...	1004·3	+2	SE	2	z₀	26	97	6	–	2	–	0	4–6	–	3	*
Cranwell ...	1004·5	+8	–	0	bF	25	97	1	–	–	–	0	0	–	4	*
Birmingham ...	1003·7	+2	SE	1	F	30	97	1	–	–	–	10	10	<150	1	*
Upper Heyford	1004·7	+4	ESE	2	bf+	26	97	2	–	–	–	0	0	–	1	*
Ross-on-Wye	1003·5	–4	NW	1	F	26	97	1	–	–	–	10	10	<150	3	*
Hartland Point	999·6	–14	SE	3	c	38	97	8	5	1	–	7–8	9	1500	1	2
Bristol ...	1003·0	0	ESE	2	f	32	97	3	–	–	–	10	10	<150	3	*
Portland Bill ...	1001·7	–4	SE	4	c	45	85	8	5	–	–	10	10	2500	1	3
Plymouth ...	1001·2	–6	ESE	1	c	40	92	8	5	7	–	4–6	10	2500	1	1
The Lizard ...	999·1	–10	S	4	c	46	92	8	8	2	–	7–8	9+	2500	1	1
Scilly (St. Mary's)	997·8	–20	SE	5	c	46	85	8	5	2	–	4–6	10	1500	1	3
Guernsey ..	1000·9	–8	ESE	1	0	43	97	9	5	–	–	10	10	2500	1	2
Pembroke ...	999·6	–14	SE'S	5	cq	43	97	7	8	2	–	7–8	10	1500	1	2
Holyhead ...	1000·1	–6	SSE	2	c	39	85	8	5	2	–	1	10	2500	1	1
Chester (Sealand)	1002·4	–4	ESE	2	z₀	31	92	6	–	1	7	0	10	–	3	*
Manchester ...	1002·9	–2	E	1	m	30	97	4	–	1	6	0	10	–	3	*
Spurn Head ...	1003·7	+4	–	0	m	33	97	4	5	–	7	2–3	10	4000	3	1
Catterick ...	1003·3	+4	–	0	bf	23	97	3	–	–	1	0	1	–	8	*
Tynemouth ...	1002·2	+6	W	2	bc	31	85	6	2	–	–	2–3	2–3	1500	3	1
St Abbs Head ..	1000·6	+4	SW	4	bc	33	85	8	–	1	–	0	4–6	–	0	3
Leuchars ...	1000·6	+6	–	0	z₀	30	97	5	5	7	–	2–3	4–6	2500	3	*
Renfrew (Abbots I.)	1000·5	0	E'S	1	m	31	97	4	–	3	–	0	2–3	–	3	*
Eskdalemuir ...	1001·7	+6	–	0	c	30	97	7	5	–	–	9+	9+	800	3	*
Point of Ayre...	1000·1	–8	S	4	c	35	85	8	8	–	–	7–8	9	1500	1	2
Tiree	996·7	–6	SSE	3	c	38	97	8	8	–	–	7–8	7–8	1500	1	*
Stornoway ...	998·3	–4	–	0	c/pr	33	92	7	5	–	–	7–8	7–8	2500	3	0
Dalwhinnie ...	1000·2	0	SW	4	bc	32	92	8	4	6	–	2–3	4–6	4000	9	*
Aberdeen ...	1000·2	+8	NW	1	b	29	85	6	8	3	–	1	1	2500	8	1
Wick ...	998·3	+2	W	2	bc	29	92	8	5	5	–	2–3	4–6	1500	5	1
Lerwick ...	996·1	+20	NW	2	bc	34	92	8	8	–	–	4–6	4–6	1500	1	*
Blacksod Point	993·6	–38	SSE	5	bc	39	92	8	9	–	–	2–3	2–3	1500	1	4
Malin Head ...	996·5	–22	SE	3	c	35	85	7	4	–	7	2–3	7–8	4000	0	2
Aldergrove ...	998·6	–12	S	2	c	33	97	7	5	–	–	10	10	2500	1	*
Birr Castle ...	995·0	–18	SE	2	c	38	92	7	5	–	–	10	10	2500	3	*
Valentia Obsy. †	990·3	–30	SE'S	6	d.d.	46	92	6	5	–	–	10	10	1500	1	4
Roches Point	993·6	–30	SE	6	ir.	47	92	8	6	2	–	4–6	10	1500	1	4

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 13th Hrs. (36)
London (Kew)	44	26	20	—	Tr	6·8
Croydon ...	46	27	25	—	–	7·1
S. Farnborough	45	24	21	Tr	Tr	6·7
Boscombe Down	45	30	22	—	Tr	5·7
Calshot (Sthmtn.)	48	33	30	—	Tr	6·0
Lympne ...	44	34	25	0.3	3	4·0
Manston ...	44	33	24	0·1	Tr	6·0
Shoeburyness ...	45	24	19	—	–	6·6
Felixstowe ...	43	26	19	—	–	5·7
Gorleston ...	42	30	27	—	–	5·4
Mildenhall ...	43	25	11	—	–	6·6
Cranwell ...	42	25	15	0·6	–	3·6
Birmingham ...	43	27	18	0.1	–	4·1
Upper Heyford	42	24	17	—	–	*
Ross-on-Wye	46	25	17	—	–	7·3
Hartland Point	45	36	34	1	–	3·2
Bristol ...	45	30	20	0.3	–	5·4
Portland Bill ...	*	42	*	—	–	*
Plymouth ...	46	35	33	—	Tr	4·0
The Lizard ...	47	40	*	—	–	2·0
Scilly (St. Mary's)	48	39	*	—	–	1·4
Guernsey ..	46	41	39	2	0·2	0·0
Pembroke ...	47	38	*	—	0·1	3·7
Holyhead ...	45	34	26	0.1	–	5·2
Chester (Sealand)	44	30	22	3	–	4·3
Manchester ...	43	29	19	1	–	1·1
Spurn Head ...	40	32	*	0.2	Tr	3·9
Catterick ...	40	22	20	0.3	–	4·0
Tynemouth ...	38	31	27	0.2	–	0·4
St Abbs Head ..	39	30	*	0.5	–	*
Leuchars ...	40	27	17	Tr	–	2·1
Renfrew (Abbots I.)	41	29	22	1	–	4·6
Eskdalemuir ...	37	20	16	0.1	–	1·0
Point of Ayre...	43	30	*	1	–	2·3
Tiree	43	31	25	Tr	3	3·7
Stornoway ...	38	30	*	1	Tr	3·5
Dalwhinnie ...	35	19	20	3	–	2·0
Aberdeen ...	35	28	20	0·6	–	0·2
Wick ...	41	28	*	Tr	Tr	*
Lerwick ...	39	32	*	2	Tr	0·0
Blacksod Point	45	35	*	3	Tr	*
Malin Head ...	43	33	*	—	–	4·5
Aldergrove ...	41	28	23	—	–	6·7
Birr Castle ...	40	30	15	—	–	3·6
Valentia Obsy. †	44	35	27	Tr	1	4·6
Roches Point	47	34	*	—	0·4	*

LONDON OBSERVATIONS

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except for rainfall which is 9h—18h.

	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h)	Weather Afternoon (24 hrs. ended 9h)	Weather Night (24 hrs. ended 9h)	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h. (To-day)
Kew...	18	bcxbcm	bcm.bm	bcf₀Fc	44	26	20	–	Tr	6·8	•	•	0
Croydon	217	cxz₀bv	bcbz₀	bmfxbcf	46	27	25	–	–	7·1	•	•	2
Greenwich (Royal Observatory)...	149	bm₀	bm₀	bxfFeFe	45	29	22	–	Tr	5·8	63	100	1
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	4·6	•	•	•
Westminster (St. James' Park) ...	27	•	•	•	46	31	25	–	–		75	99	•
Regents Pk. (Botanic Gardens)‡...	168	•	•	•						5·1			•
Camden Square	110	bc	bc	•	44	30	24	–	–	•	•	98	•
Kensington	80	bc	bc	•	46	31	27	–	–	6·3	41 18h. 76	94	•
Hampstead Observatory	450	bc	bc	oxf	42	29	21	–	–	5·8	•	99	•

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 14th.

	Max.	Time.	Min.	Time.
South Kensington.	1·3	3–4h 14th	<0·3	11–14h 13th
Kew Observatory.	1·2	5h 14th	0·1	14h 13th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 13th January Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 14th January Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris	1008·9	S	2	c	41	1004·6	SSW	3	d.d.	45	*	*	*	*
Brussels	1007·9	SSW	1	b	37	1006·8	SE	1	c	36	39	36	–	Tr
Berlin	1007·3	SW	3	c	36	1009·4	SSW	2	b	32	37	32	–	1
Zürich	1016·4	S	2	bc	37	1004·7	SSW	4	c	41	43	34	–	0·1
Rome											*	*		

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	<1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	> 75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22 — Code for surface visibility.

		Objects not visible at
0	Dense fog	55 yards.
1	Thick fog	220 ,,
2	Fog	550 ,,
3	Moderate fog	1,100 ,,
4	Mist or haze	1¼ miles.
5	Poor visibility	2½ ,,
6	Moderate ,,	6½ ,,
7	Good ,,	12½ ,,
8	Very good ,,	31 ,,
9	Excellent ,,	beyond 31m

COLUMN 30.—Code for State of Sea.

0	Calm.	5	Very rough
1	Smooth.	6	High.
2	Slight.	7	Very high
3	Moderate.	8	Precipitous.
4	Rough.	9	Confused.

TERMS OF SUBSCRIPTION. Single Copies, 1d. each: by post 1½d. 2/6 per month; 6/6 per quarter; 25/- per year.

METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY, LONDON, W.C.2.

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† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

Page 1.
AIR
MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Sunday 15th January, 1939.
No. 28178

OBSERVATIONS at 13h. G.M.T. 14th January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Amount Low 0–10 (12)	Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1002.8	–14	ESE	2	of–	41	85	3	5	–	–	10	10	1500
	Croydon ...	1003.5	–10	ESE	2	z_o	41	85	6	5	7	–	9	10	1500
	S. Farnborough	1002.2	–18	E	2	cf–	36	92	3	5	–	–	10	10	800
	Boscombe Down	1001.2	–18	SE'E	4	id_o	37	97	5	5	–	–	10	10	450
	Calshot (Sthmtn.)	1003.4	–6	ESE	4	d_od_o	43	97	4	–	2	–	10	10	800
	Lympne ...	1004.5	–18	ESE	3	z_o	40	92	5	5	2	–	9+	10	450
	Manston ...	1003.9	–22	SE	3	z_o	41	85	6	5	7	–	4-6	9+	1500
2	Shoeburyness ...	1004.0	–16	SE'E	2	c	40	92	6	–	7	–	0	9+	–
	Felixstowe ...	1004.7	–6	SSE	2	c	40	92	7	5	3	7	4-6	9+	1500
	Gorleston ...	1005.2	–10	S'W	3	c	39	85	6	5	7	–	4-6	7-8	2500
	Mildenhall ...	1003.4	–6	SE	3	m/f	39	92	4	5	7	–	4-6	9+	7200
	Cranwell ...	1003.7	–12	SE'S	2	cf–	32	97	3	5	7	8	7-8	9+	4000
3	Birmingham ...	1001.6	–16	SSE	3	z_o	36	92	5	5	7	–	4-6	9+	1500
	Upper Heyford	1002.5	–14	E'S	2	cf–	34	97	3	5	3	–	4-6	10	220
4	Ross-on-Wye	999.7	–30	SSE	2	o/f	37	92	5	5	–	–	10	10	800
5	Hartland Point	994.8	–38	SE	4	c	45	97	8	4	2	–	7-8	9+	1500
	Bristol ...	999.9	–32	SE	3	z_o	38	97	5	5	2	–	9+	10	1500
	Portland Bill ...	998.0	–12	SE	3	d_od_o	46	92	6	5	–	–	10	10	1500
	Plymouth ...	995.0	–48	SSE	3	d_od_o	47	97	6	–	2	–	10	10	450
	The Lizard ...	993.6	–48	SSE	5	rr	51	97	7	5	–	–	10	10	1500
	Scilly (St.Mary's)	990.6	–56	SSE	5	rr	51	97	4	5	–	–	10	10	800
	Guernsey ...	999.7	–18	SSE	1	o	49	92	7	5	–	–	10	10	2500
6	Pembroke ...	998.1	–24	SE	7	id_o	45	97	6	8	–	–	10	10	1500
7	Holyhead ...	996.4	–26	SE	4	r_or_o	42	85	8	5	2	–	4-6	10	1500
	Chester (Sealand)	999.8	–24	SE'E	2	of	35	92	3	5	–	–	10	10	450
8	Manchester ...	1001.0	–18	E'S	3	cf+	38	85	3	–	7	–	0	10	–
10	Spurn Head ...	1003.4	–2	S'E	3	c	37	92	6	–	2	8	0	9+	–
	Catterick ...	1002.6	–10	S'W	1	F	31	97	1	–	–	–	10	10	<150
	Tynemouth ...	1002.6	–4	S	2	of	32	85	3	5	–	–	10	10	1500
11	St. Abbs Head...	1001.0	0	SSE	2	c	35	85	7	4	2	–	4-6	9	2500
	Leuchars ...	1000.7	–6	–	0	c	32	92	6	–	3	–	0	9+	–
12	Renfrew (Abbots I.)	998.6	–26	E'N	2	cf	37	85	3	5	7	–	9	10	1500
	Eskdalemuir ...	1000.5	–14	SE'E	2	c	33	85	7	5	7	–	7-8	9+	1500
	Point of Ayre...	997.9	–18	SSE	5	c	40	85	6	5	2	–	7-8	10	800
13A	Tiree ...	994.1	–22	SE	4	c	42	85	8	8	–	–	7-8	7-8	1500
13B	Stornoway ...	997.3	–8	S	5	bc	42	75	8	8	–	–	4-6	4-6	2500
15	Dalwhinnie ...	999.3	–14	S	3	bc	31	97	7	4	5	1	4-6	4-6	2500
	Aberdeen ...	1000.6	–2	SW	2	b	39	75	5	–	3	–	0	Tr	–
	Wick ...	998.7	–4	SSW	3	bc	40	75	8	5	4	1	2-3	4-6	2500
16	Lerwick ...	999.6	+8	SSW	3	c/ps	34	85	8	8	7	–	4-6	7-8	800
17	Blacksod Point	986.3	–48	SE	6	c	42	92	8	9	–	–	9+	9+	1500
18	Malin Head ...	991.2	–48	SSE	4	c	39	85	7	8	–	2	4-6	7-8	5700
	Aldergrove ...	993.9	–38	SE'S	3	c/r	39	85	8	5	–	–	10	10	2500
19	Birr Castle ...	989.0	–36	SSE	3	c/r	44	97	7	6	2	–	4-6	10	800
20	Valentia Obsy. †	982.2	–58	SE	6	r_or_o	51	92	7	6	–	–	10	10	1500
	Roches Point	986.9	–46	S'E	6	dr	49	97	6	5	–	–	10	10	450

OBSERVATIONS at 18h. G.M.T. 14th January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low. (23)	Cloud Form Med. (24)	Cloud Form High. (25)	Amount Low 0–10 (26)	Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea. 0–9 (30)
London (Kew)	997.9	–32	E'S	2	r_or_o	43	92	5	5	–	–	10	10	1500	1	*
Croydon	998.7	–26	SE'S	3	rr	44	97	4	6	2	–	9+	10	450	1	*
S. Farnborough	996.6	–32	SE	4	rr	44	97	6	5	–	–	10	10	450	1	*
Boscombe Down	995.0	–42	SE'S	5	rf	45	97	3	–	–	–	10	10	<150	1	*
Calshot (Sthmtn.)	997.3	–34	SE	5	rfr	46	97	6	–	2	–	10	10	450	1	3
Lympne	1001.6	–20	SSE	3	rf	45	97	2	–	–	–	10	10	<150	1	§2
Manston	1001.1	–20	SE'S	3	df	44	97	3	5	–	–	10	10	<150	1	*
Shoeburyness	1000.4	–28	SE	3	m	41	97	4	5	–	–	10	10	2500	1	*
Felixstowe	1001.5	–14	SE	3	cf+	41	97	3	5	2	–	7-8	10	2500	1	3
Gorleston	1002.8	–10	SSE	5	c	41	85	8	5	–	–	10	10	2500	1	3
Mildenhall	999.7	–20	ESE	4	rr	40	97	6	6	2	–	7-8	10	1500	1	*
Cranwell	999.7	–26	S'W	3	f–	36	97	3	–	–	–	10	10	<150	1	*
Birmingham	995.8	–36	ESE	3	rf	37	97	3	6	–	–	10	10	800	1	*
Upper Heyford	996.7	–38	E'S	3	rf	39	97	2	–	–	–	10	10	<150	1	*
Ross-on-Wye	993.0	–40	SE	3	rr	41	97	5	6	–	–	10	10	450	1	*
Hartland Point	987.3	–38	SSW	6	rr	51	97	7	6	2	–	9+	10	800	1	4
Bristol	993.0	–46	SE	3	r_or_o	45	97	6	5	–	–	10	10	450	1	*
Portland Bill	993.0	–46	S	6	RR	50	92	6	5	–	–	10	10	800	1	4
Plymouth	990.7	–32	SSE	5	RR	51	97	5	–	2	–	10	10	220	1	3
The Lizard	988.9	–10	SSW	7	rr	53	97	6	5	–	–	10	10	1500	1	4
Scilly (St.Mary's)	986.3	–16	SSW	6	r_or_o	53	97	5	5	–	–	10	10	800	1	4
Guernsey	996.8	–38	S	4	rr	51	97	6	5	–	–	10	10	800	1	4
Pembroke	985.0	–32	SE	6	rr	48	97	5	5	–	–	10	10	800	1	4
Holyhead	988.4	–48	E'S	5	rr	43	92	7	6	2	–	7-8	10	1500	1	2
Chester (Sealand)	994.0	–40	ESE	3	rf	38	92	3	–	2	–	10	10	800	1	*
Manchester	995.2	–30	ESE	4	r_or_o	38	92	4	6	2	–	7-8	10	800	1	*
Spurn Head	1000.0	–18	SE'S	5	c	40	92	6	5	–	–	10	10	2500	1	3
Catterick	998.7	–22	SE'S	1	f–	33	97	3	–	–	–	10	10	<150	8	*
Tynemouth	998.8	–20	S	4	o/f	39	85	7	5	–	–	10	10	1500	1	1
St. Abbs Head	998.1	–20	SSE	5	c	34	92	6	4	6	–	4-6	9+	2500	0	3
Leuchars	997.3	–22	E	1	bc	34	85	6	–	3	1	0	4-6	–	3	*
Renfrew (Abbots I.)	995.1	–22	ESE	3	m/f	36	85	4	5	7	–	4-6	10	1500	3	*
Eskdalemuir	995.9	–22	SE'E	2	c	34	85	6	5	–	–	10	10	800	3	*
Point of Ayre	991.1	–40	SSE	7	rr	41	92	6	–	2	–	10	10	800	1	4
Tiree	989.1	–26	ESE	6	c	40	85	7	5	–	–	9+	9+	1500	0	4
Stornoway	994.9	–16	ESE	5	b	40	85	8	5	–	–	1	1	4000	1	2
Dalwhinnie	996.2	–14	SE	3	c	32	92	6	4	6	–	4-6	7-8	1500	9	*
Aberdeen	998.2	–18	S	2	bc	38	85	6	5	–	–	4-6	4-6	1500	3	1
Wick	997.7	–6	SSE	3	bc	40	75	8	5	7	8	2-3	4-6	1500	1	1
Lerwick	999.8	–2	WSW	1	c	33	92	8	8	7	–	4-6	7-8	800	4	*
Blacksod Point	976.8	–64	SSE	6	rr	46	97	7	6	–	–	10	10	800	1	4
Malin Head	985.7	–64	SSE	5	c/r	41	85	5	6	2	–	7-8	10	1500	0	3
Aldergrove	987.6	–42	SE	5	r_or_o	39	92	6	6	2	–	7-8	10	800	1	*
Birr Castle	980.1	–66	SSE	3	ir	46	97	7	6	2	–	7-8	10	800	1	*
Valentia Obsy. †	973.0	–42	S	5	rr	54	97	6	6	–	–	10	10	800	1	4
Roches Point	977.6	–44	S'E	7	dr	51	97	5	5	–	–	10	10	450	1	5

PAST 24 HOURS. — WEATHER.

Stations	7h.—13h. 14th (37)	13h.—18h. 14th (38)	18h. 14th to 1h. 15th (39)	1h.—7h. 15th (40)
London (Kew)	oFxoff	$ofir_orr_o$	cr_orir_om	cir_oPRq
Croydon	$bcfFcm_o$	$cmid_ofrr$	cmr_orrdr	cr_orrdr
S. Farnborough	cf	$cfdr_orr$	rRr_oc	RrrcRR
Boscombe Down	$fxoid_om_o$	id_odfrf	rfr_or_orr	crrprbc
Calshot (Sthmtn.)	$cfir_od_od_o$	d_od_oORR	oRRrrc	corrc
Lympne	$bccm_o$	Fd_ofr_o	$fFrromr_or$	omr_orr
Manston	cm_of,cm_o	cod_od_off	$orrm_o$	$crrm_o$
Shoeburyness	$bxFfm_oc$	cm_omo	orrc	ir_oc
Felixstowe	$cFcm_obc$	ccmcidf	fddrrRR	c
Gorleston	$bccz_ox$	cq	orrq	or_or_ocoq
Mildenhall	bcffxcff	cr_or_orr	crr	$crrcm_o$
Cranwell	bxFmff	cffoff	fom_orr	$om_or_or_oc$
Birmingham	fc	cofr	frr_o	r_oPRc
Upper Heyford	$cFfr_o$	ofr_oR	$fRRcr_or_o$	r_or_orc
Ross-on-Wye	FFxof	$om_or_om_or$	rrqdqrq	irqcq
Hartland Point	c	rrc	rrdrdrc	drcrbc
Bristol	cfemc	cmr_orr	cRRqr	cqr_oR
Portland Bill	od_o	oR	oR	oRc
Plymouth	cod_od_om	$rrRRm_o$	$r_or_ocm_oir$	ir_ocm_obc
The Lizard	cidrr	omrr	rrprc	cbcq
Scilly (St.Mary's)	corrm	$orrr_om_o$	ir_om_oo	cpq
Guernsey	oid	oRR	orrir	orcir
Pembroke	gir_oid_omc	$crrm_oq$	prrmRqo	cairbc
Holyhead	cpr_or_oc	r_or_orrc	$rrRm_oc$	rr_or_olc
Chester (Sealand)	cm_oxm	ofxrrf	$crrfm_o$	$cr_or_om_opr$
Manchester	cmxffm	$cfmr_or_o$	crrRpr	cpr
Spurn Head	cmz_o	cz_ow	Rrwo	prqd
Catterick	oxF	xFoxf	oxfrr	crrbc
Tynemouth	bcmoff	offo	oirrr	oirbcq
St. Abbs Head	bcc	m_oc	rrm_oc	rrqc
Leuchars	$bccxm_o$	cm_obcx	bcr_or_orr	$rrRRr_obc$
Renfrew (Abbots I.)	$cxir_off$	cffm	cmr_orr	cmr_oRR
Eskdalemuir	offcx	cxc	$corrm_o$	orrq
Point of Ayre	c	cirrr	rr	Dcrr
Tiree	c	cir_o	c	oRrc
Stornoway	cbcpr	bcb	b,c	cRR
Dalwhinnie	c	c	*	crrRr
Aberdeen	bfz_o	$bbcz_o$	bccrr	rrRrR
Wick	bccbc	bc	bcc	RRq
Lerwick	$bcps_o$	cps	$cbcpr_o$	$bcpr_o$
Blacksod Point	cq	iroq	iRq	Rrq
Malin Head	cpr_oc	cpr_oc	cr_orucr_orq	cr_orc
Aldergrove	$r_or_om_oir_oc$	$ir_ocr_or_o$	cr_or_orr	cprqc
Birr Castle	cir	cir	cirrr	rrbcpr
Valentia Obsy. †	$d_od_or_or_o$	rrr_or_orr	rrddRprbc	bcprbcql
Roches Point	ir_oddr	drdr	drdrc	cirbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s_o, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s_o/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height). ⸗ gale.
⊕, Solar halo. ⦶ lunar halo. Aurora.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus :—bc/r, fair weather after rain ; —, has decreased ; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6 ; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing : sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing : usually in tufts.
5 Ci or Cs increasing : still below 45° altitude : often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude : often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations :—
Cirrus,–Ci : Cirrocumulus,–Cc : Cirrostratus,–Cs : Altocumulus,–Ac : Altostratus,–As
Stratocumulus,–Sc : Stratus,–St : Nimbostratus,–Ns : Cumulus,–Cu : Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 . . Ground dry.
1 . . „ wet.
2 . . „ flooded.
3 . . „ frozen hard and dry.
4 . . „ partly covered with snow or hail.
5 . . „ covered with ice or glazed frost.
6 . . Ground covered with thawing snow.
7 . . „ covered with snow, less than 6 ins., deep but ground not frozen.
8 . . „ covered with snow, less than 6 ins., but ground frozen
9 . . „ covered with snow greater than 6 ins. deep

NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2*

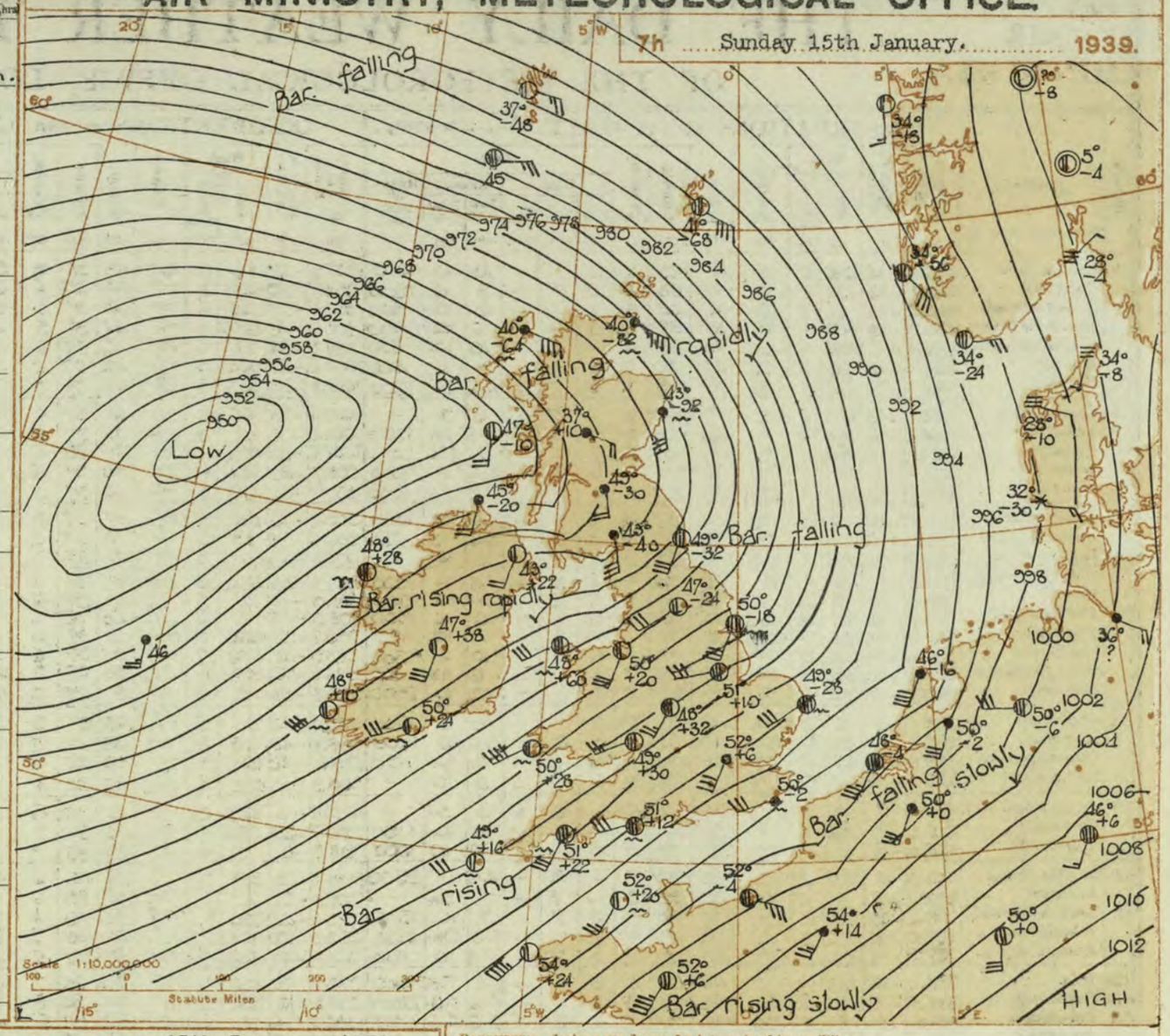
† Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 14th January 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F.) Min. 9h. 13th to 9h. 14th	Temperature. (°F.) Max. 9h.—17h. 14th	Rainfall. (mm.) Night. 17h. 13th to 9h. 14th	Rainfall. (mm.) Day. 9h.—17h. 14th	Sunshine, hrs. Sunrise to Sunset. 14th.
1	Tunbridge W.	o	od.om	28	43	Trace	Trace	0.0
	Bournemouth	o	odrr	31	46	Trace	4	0.0
	Ventnor ...	rof	ofr	40	47	2	3	0.0
	Southsea ...	co	oor	35	47	—	3	0.0
	Bognor Regis	cid.	oorr	33	46	—	1	0.0
	Littlehampton	c	cor	32	45	—	1	0.0
	Worthing ...	co	odr	34	46	—	1	0.0
	Brighton ...	c	cd	35	47	—	*	0.0
	Eastbourne† ...	co	od.r.	36	47	1	0.2	0.1
	Hastings† ...	co	od.o	37	45	15	Trace	0.0
	Folkestone ...	ocbcc	oddo	34	46	2	Trace	0.5
	Dover ...	cbcc	codo	33	46	1	Trace	0.5
	Deal	o	oido	32	45	Trace	Trace	0.0
	Ramsgate ...	co	od	37	42	—	Trace	0.3
	Margate ...	c	cd.	35	43	—	Trace	0.2
2	Southend ...	cfm	cmof	28	40	Trace	—	0.1
	Clacton-on-Sea	bccfm	com	32	41	—	—	0.5
	Dovercourt ...	xocf	focb	27	41	—	—	0.6
	Lowestoft ...	cfxc	bcc	28	42	—	—	0.5
	Skegness ...	foco	o	29	39	—	—	0.0
	Mablethorpe...	bxmc	o	27	39	—	—	0.0
	Cleethorpes ...	bc	bcc	29	37	—	—	0.1
3	Leamington S.	oc	or	25	38	—	1	0.0
4	Cheltenham†	cxo	omorr	29	39	—	1	0.0
5	Bath	fc	crr	27	45	—	2	0.0
	Weymouth ...	c	crr	31	50	—	7	0.0
	Jersey ...	rc	crr	41	51	2	5	0.2
	Torquay ...	ovodp	odprr	33	50	0.2	11	0.0
	Falmouth	ogvrf	ogfrq	37	54	—	19	0.0
	Penzance ...	ood.d	rorrq	36	54	—	17	0.0
	St. Ives ...							
	Bude... ...	c	r	31	51	—	7	0.0
	Ilfracombe ...	pcbc	corr	37	50	Trace	6	2.2
6	Aberystwyth	c	cdd	35	43	—	1	0.0
7	Llandudno ...	co	oir.	32	41	—	0.4	0.0
	Colwyn Bay...	xo	oor	34	41	—	0.3	0.0
	Rhyl	cm.	cm.r.	29	40	—	Trace	0.0
8	Wallasey ...	xmco	orf	32	39	—	0.3	0.0
	Southport ...	cocom	orbm	28	39	—	0.2	0.0
	Blackpool ...	omf	m.fm	29	39	Trace	Trace	0.0
	Morecambe ...	xbcc	c	31	41	Trace	Trace	0.0
9	Ilkley... ...	f	fs	28	33	—	Trace	0.0
	Harrogate ...	off	off	27	33	—	—	0.0
10	Berwick-on-T.	bcm.	mofc	29	35	—	—	2.2
11	Dunbar ...	bcx	bc	28	39	—	—	2.7
12	Troon... ...	xpoco	coco	34	39	1	Trace	0.0
	Douglas ...	bcxprcfpr.		34	42	Trace	Trace	0.0

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.–9h.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 15th January, 1939.

Districts.	Forecasts
1 S.E. England ▼	Squally southwesterly winds, moderate or fresh inland, strong to gale on coasts; showers of rain or hail, thunder locally; bright periods; mild.
2 E. England ..▼	
3 E. Midlands ...	
4 W. Midlands ...	
5 S.W. England ▼	
6 South Wales ..▼	
7 North Wales ..▼	
8 N.W. England ▼	
9 N. Midlands ...	
10 N.E. England ▼	
11 S.E. Scotland ▼	
12 S.W. Scotland & Isle of Man. ▼	
13 A. W. Scotland. ▼	Squally easterly winds, strong to gale, veering to southwest; continuous rain soon, followed by bright periods and showers of rain or hail, and thunder locally; mild.
13 B. N.W. Scotland. ▼	
14 Mid Scotland	
15 N. E. Scotland ▼	
16 Orkney and Shetland ▼	
17 N. W. Ireland ▼	As 1 - 13 A.
18 N. E. Ireland ▼	
19 S. E. Ireland ▼	
20 S. W. Ireland ▼	

GENERAL INFERENCE.

An intense depression to the West of Scotland is moving slowly north-north-east. There will be bright periods and squally showers of rain or hail in all districts with thunder locally, but in Northern Scotland there will be continuous rain at first. Temperature will be above the average.

FURTHER OUTLOOK.

Little change.

Times of Issue of Gale Warnings.

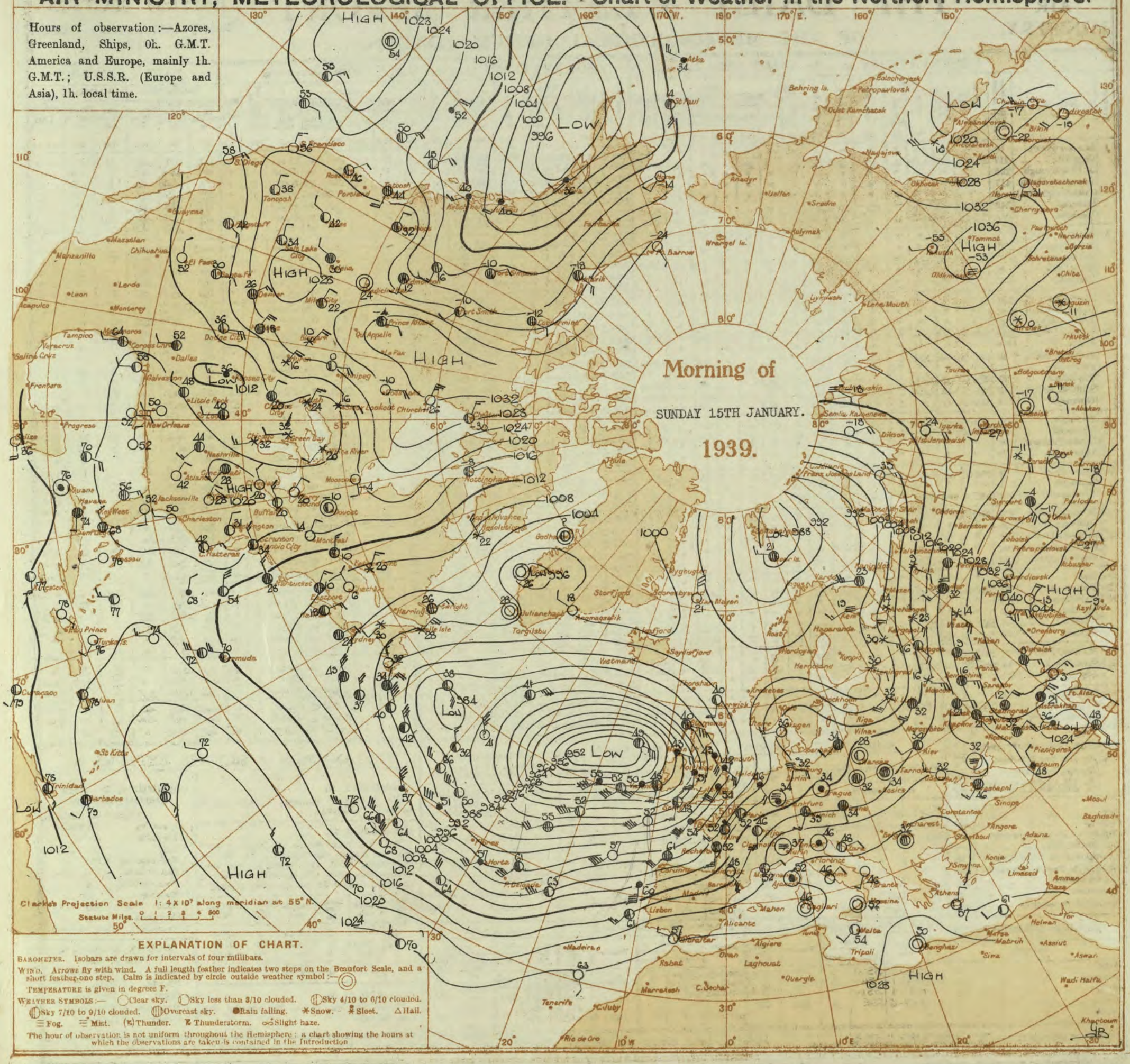
▼ South Cone hoisted at 0810 on 14/1/39 in districts 5, 6, 7, 8, 12, 13A, 17, 18, 19 and 20, at 1900 in district 13B, and at 0130 on 15/1/39 in districts 1, 2, 10, 11, 15 and 16.

Forecasts issued at 1000 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S.
Director.

H.M. Stationery Office Press, Kingsway, W.C.2. C.196/2623 m 8095 0 3785 Gp. 948 29140 1/39.

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



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AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 15th January, 1939.

No. 28178

OBSERVATIONS at 1 hr. G.M.T. 15th January

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	992·3	-12	SW'S	6	ir	54	92	8	6	2	-	9	10	1500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	995·8	-14	SSW	7	r°r°	51	97	5	6	-	-	10	10	220
	Manston	154	994·6	-14	SW'S	6	r°r°	52	92	6	6	2	-	9	10	450
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	992·0	-42	SSW	5	r°r°	40	92	6	6	-	-	10	10	1500
	Mildenhall	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	981·4	-24	SW	8	dr	54	92	7	6	2	-	9+	10	800
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32	989·8	-14	SW	6	RR	52	85	7	5	-	-	10	10	800
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard	240	985·6	-40	SW'S	8	c	53	97	6	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	981·3	-12	SW'W	7	c/pr	52	85	6	5	-	-	10	10	800
	Guernsey	175	998·2	-20	S	5	rr	59	85	6	5	-	-	10	10	1500
6	Pembroke	142	978·0	-20	S'W	9	c/r	51	92	6	5	4	-	10	10	800
7	Holyhead	26	976·4	-30	S	5	r°r°	51	92	6	6	2	-	7-8	10	450
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	986·5	-62	SSE	5	DD	42	97	4	5	-	-	10	10	450
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	108	985·1	-60	SSE	6	rr	43	97	6	6	-	-	10	10	800
11	St Abbs Head	280	982·9	-72	SSE	7	rr	41	97	7	3	2	-	7-8	10	1500
	Leuchars	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	977·0	-50	S'E	6	rr	43	97	6	-	2	-	10	10	800
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	983·4	-50	ESE	6	c	40	75	7	5	2	-	4-6	10	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	988·9	-44	SSE	6	c	42	75	7	5	1	-	7-8	9	1500
16	Lerwick	156	995·9	-24	S	4	bc/pr	40	75	8	8	7	-	4-6	4-6	1500
17	Blacksod Point	18	963·9	-44	S	7	iR	50	97	7	6	-	-	10	10	220
18	Malin Head	84	968·9	-102	SE'E	4	r°r°	43	97	5	6	2	-	4-6	10	800
	Aldergrove	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	966·1	-10	S	3	c	48	92	7	8	-	-	7-8	7-8	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 15th January — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 14th Hrs. (36)
London (Kew)	990·8	+8	SSW	5	PR	52	85	6	-	2	-	10	10	1500	1	*	44	43	42	1	7	0·0
Croydon	990·9	+6	SSW	6	ir	52	92	7	6	2	-	9	10	1500	1	*	44	44	43	1	14	0·2
S. Farnborough	991·4	+18	SW'S	6	RR	48	85	6	6	2	-	9+	10	800	2	*	44	44	40	2	15	0·0
Boscombe Down	990·1	+26	SW	5	bc	50	85	7	5	1	-	4-6	4-6	2500	1	*	45	45	43	3	13	0·2
Calshot (Sthmtn.)	992·4	+14	SSW	6	c	50	85	7	5	-	-	9+	9+	1500	1	4	46	45	45	4	9	0·0
Lympne	993·9	-2	SW'S	6	rr	50	97	5	6	2	-	9	10	800	1	§4	45	45	42	0.3	11	0·0
Manston	992·4	+2	SSW	7	rr	52	85	6	6	2	-	9	10	800	1	*	44	44	43	0.1	6	0·3
Shoeburyness	991·7	-2	SSW	5	ir	52	85	7	6	2	-	9	10	2500	1	*	42	41	40	—	8	0·0
Felixstowe	990·1	-6	S	4	c	48	85	7	5	2	-	7-8	10	1500	1	4	41	40	39	Tr	9	0·6
Gorleston	988·7	-28	SW'S	6	o	49	97	6	6	-	-	10	10	1500	1	5	41	40	37	—	8	0·0
Mildenhall	986·6	-10	SSW	6	z°	54	85	6	5	-	-	10	10	2500	1	*	40	39	38	0.2	7	0·0
Cranwell	984·1	+10	WSW	6	c	51	75	7	5	7	-	2-3	7-8	1500	1	*	36	37	35	Tr	11	0·0
Birmingham	985·9	+32	SSW	5	c	48	75	8	5	-	-	9+	9+	1500	1	*	37	36	36	2	11	0·0
Upper Heyford	989·0	+28	SW	4	c	50	75	7	5	3	8	2-3	9	1500	1	*	39	39	38	2	11	*
Ross-on-Wye	986·9	+30	SW	5	cq	49	65	7	5	7	-	9	9+	2500	1	*	41	41	41	3	8	0·0
Hartland Point	984·6	+30	SW	7	c	49	75	8	8	-	-	7-8	7-8	1500	1	4	51	46	48	7	4	0·0
Bristol	989·3	+26	SSW	4	c	49	75	7	5	-	8	4-6	7-8	1500	1	*	45	45	43	2	7	0·0
Portland Bill	990·9	+12	WSW	6	c	51	85	7	5	-	-	7-8	7-8	2500	1	5	51	45	*	8	7	*
Plymouth	989·3	+22	SSW	6	c	51	85	7	-	1	6	0	7-8	-	1	4	52	50	48	18	5	0·0
The Lizard	987·6	+12	SW	7	c	50	85	7	8	2	-	7-8	9	1500	1	4	53	49	*	15	1	0·0
Scilly (St. Mary's)	988·3	+16	SW'W	6	bcq	49	85	7	3	4	-	1	2-3	1500	1	5	53	49	*	15	3	0·0
Guernsey	993·9	+20	SSW	5	bc	52	85	6	5	-	-	4-6	4-6	2500	1	5	51	51	48	12	6	0·0
Pembroke	981·6	+28	SW	8	bcq	50	85	7	5	-	-	4-6	4-6	1500	1	4	48	44	*	12	12	0·0
Holyhead	976·8	+60	SW	6	cl	48	92	8	6	2	-	2-3	10	1500	1	4	43	43	40	3	16	0·0
Chester (Sealand)	979·9	+20	SSW	6	bc/pr	50	75	7	9	-	-	4-6	4-6	1500	1	*	38	38	36	1	8	0·0
Manchester	981·3	+20	SSW	6	c	50	75	7	5	-	-	9	9	1500	1	*	39	38	37	0.6	11	0·0
Spurn Head	981·0	-18	SSW	6	cq	50	92	7	6	-	-	10	10	800	1	4	40	39	*	Tr	8	0·8
Catterick	976·3	-24	SW'S	6	bc	47	75	7	6	-	-	4-6	4-6	1500	1	*	33	32	32	—	11	0·0
Tynemouth	973·3	-32	SSW	6	cq	49	75	7	9	-	-	10	10	1500	1	3	39	39	35	—	7	0·0
St Abbs Head	971·3	-48	SSE	5	bc/r	43	97	7	3	6	9	4-6	4-6	2500	1	4	35	33	*	—	18	*
Leuchars	969·9	-52	SE	2	c/r	43	97	8	6	-	-	7-8	7-8	800	2	*	38	33	30	—	23	1·3
Renfrew (Abbots I.)	967·9	-30	SSE	4	r°r°	49	85	6	5	7	-	4-6	9	1500	2	*	37	35	32	Tr	26	0·0
Eskdalemuir	969·4	-40	S'E	6	rr	43	92	5	6	-	-	10	10	450	1	*	35	34	33	0.1	20	0·0
Point of Ayre	970·6	-16	W	8	rr	47	92	7	8	2	-	7-8	10	1500	1	4	41	39	*	0.6	15	0·0
Tiree	962·3	-10	S	4	c	47	97	7	5	-	-	9+	9+	1500	1	*	43	39	38	0.2	12	0·8
Stornoway	969·2	-64	ESE	8	RR	40	97	6	5	2	-	7-8	10	1500	1	4	42	38	*	2	5	3·1
Dalwhinnie	969·0	*	SE	4	RR	37	65	6	6	-	-	10	10	1500	6	*	33	30	25	—	13	0·2
Aberdeen	971·5	-32	S'E	6	RR	43	97	5	6	-	-	10	10	800	1	4	39	38	34	—	15	4·2
Wick	974·4	-82	SE	9	RR	40	97	6	5	2	-	9+	10	800	1	4	40	38	*	—	4	*
Lerwick	984·7	-68	SE	8	c	41	65	8	5	7	-	7-8	10	800	1	*	39	31	*	0.2	Tr	1·2
Blacksod Point	967·1	+28	S	6	c	48	85	7	9	-	-	10	10	800	1	4	47	45	*	2	9	*
Malin Head	966·9	-20	SW	4	r°r°	45	92	6	9	-	-	9+	9+	1500	1	3	41	39	*	0.1	15	0·0
Aldergrove	970·3	+22	SSW	4	bc/pr	43	92	7	8	-	-	4-6	4-6	4000	1	*	40	38	37	1	11	0·0
Birr Castle	972·4	+38	SSW	6	bc/pr	47	85	8	3	-	-	2-3	2-3	1500	1	*	46	45	40	5	17	0·0
Valentia Obsy. †	972·6	+10	SW'S	7	bc	48	55	7	8	-	-	4-6	4-6	1500	1	5	54	47	44	14	11	0·0
Roches Point	977·3	+24	WSW	6	bc	50	85	8	9	-	-	2-3	2-3	1500	1	5	51	46	*	13	9	*

LONDON OBSERVATIONS

Day 7h—18h, Kew & Croydon. 9h—18h, Kensington. 9h—21h, other stations except for rainfall which is 9h—18h.

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew	18	oFxoff	ofir°r°	cr°rPRq	44	43	42	1	7	0·0	•	•	6
Croydon	217	bcfFom°	emidfrr	cmr°rdr	44	44	43	1	14	0·2	•	•	6
Greenwich (Royal Observatory)	149	Fecf	cfr	cirq	50	49	40	1	9	0·0	85	82	6
City (Bunhill Row)	—	•	•	•	•	•	•	•	•		•	•	•
Westminster (St. James' Park)	27	•	•	•	54	44	40	9			89	83	•
Regents Pk. (Botanic Gardens)‡	168	•	•	•	55	33	32	0·6	9	0·0	91	86	•
Camden Square	110	of	o	•	55	33	32	10		•	•	83	•
Kensington	80	f	of	•	43	42	40	0·2	11	0·6	At 18h. 85	84	•
Hampstead Observatory	450	of	or	bc	49	47	39	0·5	13		•	90	•

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 15th

	Max.	Time.	Min.	Time.
South Kensington	2·0	13-14h 14th.	<0·3	0-9h 15th
Kew Observatory	1·0	10-11h 14th	<0·1	0-7h. -15th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 14th January Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 15th January Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris	1006·3	SSW	3	z°	50	1003·9	SSW	5	ir	54	52	48	—	5
Brussels	1005·1	SW	3	o	37	1000·0	SSW	6	rr	50	46	45	0·5	1
Berlin	1011·1	SSW	1	z°	34	1007·2	SE'S	3	r°r°	34	39	30	—	0·2
Zürich	1017·6	SSE	3	bc	39						48		—	
Rome						1025·0	E	2	bc	43	*	*		—

EXPLANATION of FIGURES, LETTERS, etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
THE BEAUFORT SCALE OF WIND is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	<1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	> 75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

Objects not visible at

- 0 Dense fog 55 yards.
- 1 Thick fog 220 „
- 2 Fog 550 „
- 3 Moderate fog 1,100 „
- 4 Mist or haze 1½ miles.
- 5 Poor visibility 2½ „
- 6 Moderate „ 6¼ „
- 7 Good „ 12½ „
- 8 Very good „ 31 „
- 9 Excellent „ beyond 31m.

COLUMN 30.—Code for State of Sea.

- 0 Calm.
- 1 Smooth.
- 2 Slight.
- 3 Moderate.
- 4 Rough.
- 5 Very rough.
- 6 High.
- 7 Very high.
- 8 Precipitous.
- 9 Confused.

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY, LONDON, W.C.2. N. K. JOHNSON, M.Sc., A.R.C.S., Director.

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 16th January, 1939.
No. 28179

OBSERVATIONS at 13h. G.M.T. 15th January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	°Temp. F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud. Form. Low (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	993·9	+20	SSW	5	z	53	75	6	9	-	6	2-3	7-8	1500
	Croydon ...	995·0	+14	SSW	6	c	53	75	7	4	6	-	7-8	7-8	2500
	S. Farnborough	994·3	+14	SW	6	c	53	75	7	7	7	6	7-8	10	2500
	Boscombe Down	992·6	+2	SSW	6	z	52	85	6	5	2	-	7-8	10	800
	Calshot (Sthmtn.)	995·3	+12	SSW	6	z	51	85	6	5	7	2	tr	9	2500
	Lympne ...	998·2	+14	SW'S	5	c	51	85	7	4	-	1	1	1	1500
	Manston ...	996·7	+18	SW'S	6	c	54	75	7	8	1	1	4-6	7-8	1500
2	Shoeburyness ...	995·7	+14	SW	6	c	53	75	7	8	-	-	7-8	7-8	2500
	Felixstowe ...	994·5	+18	WSW	5	b	53	65	8	5	-	-	tr	tr	2500
	Gorleston ...	993·1	+30	WNW	4	bc/dc	53	75	6	2	-	-	4-6	4-6	2500
	Mildenhall ...	991·8	+24	SW	5	bc	54	65	7	1	1	1	4-6	4-6	2500
	Cranwell ...	988·5	+26	SSW	6	c	51	75	8	1	4	6	tr	9	1500
3	Birmingham ...	988·8	+10	SSW	5	c	50	75	8	1	7	-	2-3	7-8	1500
	Upper Heyford	991·8	+18	SW'S	5	c	51	75	7	1	5	6	tr	7-8	2500
4	Ross-on-Wye	988·7	0	S'W	4	cq	51	75	8	6	7	-	tr	9+	2500
5	Hartland Point	985·4	-14	SW	7	c	52	75	7	6	2	-	7-8	10	1500
	Bristol ...	995·3	0	SSW	5	c/p	52	75	7	5	2	-	4-6	10	1500
	Portland Bill ...	992·4	+8	WSW	6	c	51	85	7	5	-	-	10	10	1500
	Plymouth ...	989·7	-14	S	6	z	52	85	6	6	2	-	4-6	10	1500
	The Lizard ...	981·7	-20	S'W	7	pr	52	97	6	5	-	-	10	10	1500
	Scilly (St. Mary's)	982·7	-52	S	7	c/pr	52	85	6	5	2	-	4-6	10	1500
	Guernsey ...	994·4	-14	SSE	4	c	53	85	7	-	2	-	0	10	-
6	Pembroke ...	983·2	-4	S'W	8	cq	50	85	5	9	2	-	7-8	10	800
7	Holyhead ...	980·7	+6	SSW	4	c/pr	46	92	8	2	1	3	2-3	9+	2500
	Chester (Sealand)	984·7	+16	SSW	5	c/pr	52	65	8	8	7	-	4-6	9	2500
8	Manchester ...	985·2	+26	SSW	5	c/pr	51	65	6	8	-	-	9+	9+	1500
10	Spurn Head ...	987·7	+30	SW'W	5	bcq	48	85	6	-	8	6	0	4-6	-
	Catterick ...	983·1	+36	SW	4	pr	49	75	6	3	7	-	7-8	9+	1500
	Tynemouth ...	980·6	+20	SW	5	cq	51	65	6	8	-	-	7-8	7-8	2500
11	St. Abbs Head...	976·0	+30	WSW	6	cq	47	75	8	8	6	-	4-6	7-8	1500
	Leuchars ...	974·8	+44	SW	5	bc	47	75	8	5	7	1	1	4-6	2500
12	Renfrew (Abbots I.)	975·0	+20	SW'S	6	cq	49	75	7	3	3	6	4-6	9	2500
	Eskdalemuir ...	977·9	+16	SSW	6	ir	44	85	7	6	-	-	7-8	9	800
	Point of Ayre...	978·1	+12	SW	6	bc	51	65	8	-	4	5	0	2-3	-
13A	Tiree	969·6	+22	S'W	6	bc	47	85	7	5	6	1	2-3	4-6	2500
13B	Stornoway ...	966·0	-6	SSW	6	c/r	48	85	7	5	2	-	9	10	2500
15	Dalwhinnie ...	972·0	+24	S	6	c	41	85	7	5	7	2	7-8	10	2500
	Aberdeen ...	974·9	+30	SW'W	4	c	47	85	7	6	7	1	4-6	9+	450
	Wick ...	966·8	-10	SSW	4	r∘r∘	44	92	7	5	2	-	9	10	800
16	Lerwick ...	971·9	-74	SE	8	rr	36	97	6	6	2	-	7-8	10	800
17	Blacksod Point	967·6	-12	SSW	7	c	50	85	8	9	-	-	7-8	7-8	1500
18	Malin Head ...	970·1	+16	S'W	5	c	49	85	8	5	-	6	4-6	7-8	4000
	Aldergrove ...	974·8	+14	SW	5	bc	47	75	8	7	-	-	4-6	4-6	2500
19	Birr Castle ...	974·4	-10	SSE	5	c	50	75	8	5	-	-	7-8	9-8	2500
20	Valentia Obsy. †	969·1	-38	SW	7	c	51	75	8	6	2	-	7-8	10	1500
	Roches Point	974·1	-38	SSW	7	pr	50	92	6	6	2	-	4-6	10	1500

OBSERVATIONS at 18h. G.M.T. 15th January

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	°Temp. F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low (23)	Cloud. Form. Med. (24)	Cloud. Form. High (25)	Cloud. Amount. Low 0–10 (26)	Cloud. Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	989·5	-36	SE'S	5	r∘r∘	53	75	6	5	2	-	7-8	10	1500	1	*
	Croydon ...	991·1	-32	S'E	4	ir∘	52	75	7	5	7	-	7-8	10	4000	1	*
	S. Farnborough	988·8	-40	S	6	r∘r∘	52	75	6	5	-	-	10	10	2500	2	*
	Boscombe Down	986·4	-40	S'W	7	rr	50	97	6	6	2	-	7-8	10	220	1	*
	Calshot (Sthmtn.)	989·8	-38	S'E	7	c	52	75	7	5	2	-	4-6	10	2500	1	4
	Lympne ...	994·8	-28	S	5	c	49	85	7	-	3	-	0	7-8	-	1	§4
	Manston ...	993·9	-28	S'E	5	c	51	75	6	5	7	-	2-3	7-8	2500	1	*
2	Shoeburyness ...	992·5	-30	SSW	5	bc	51	75	8	-	4	2	0	4-6	-	1	*
	Felixstowe ...	992·7	-16	S	5	z	45	85	6	5	1	8	2-3	4-6	4000	1	4
	Gorleston ...	992·2	-20	SSW	6	c	48	85	6	-	2	-	0	10	-	1	4
	Mildenhall ...	988·8	-30	S	5	z	52	75	6	5	1	-	4-6	7-8	2500	1	*
	Cranwell ...	985·1	-32	SSW	5	c	50	75	7	5	2	-	4-6	10	1500	1	*
3	Birmingham ...	982·1	-56	SSE	5	r∘r∘	49	85	7	6	-	-	10	10	800	1	*
	Upper Heyford	986·0	-50	S'E	5	r∘r∘	50	85	6	5	-	-	10	10	1500	1	*
4	Ross-on-Wye	982·0	-46	S	6	ir∘	51	85	6	6	-	-	10	10	800	1	*
5	Hartland Point	979·2	-4	SW	8	c	52	75	8	5	2	-	7-8	9	1500	1	4
	Bristol ...	983·5	-48	SSW	8	ir	52	92	6	6	2	-	7-8	10	1500	1	*
	Portland Bill ...	986·4	-28	SW	6	RR	50	92	7	5	-	-	10	10	800	1	5
	Plymouth ...	983·9	-4	SSW	6	r∘r∘	50	97	6	6	2	-	4-6	10	450	1	4
	The Lizard ...	980·6	-8	SW'S	7	pR	52	97	6	8	-	-	9	9	1500	1	5
	Scilly (St. Mary's)	979·4	+4	SW'S	6	pr	51	92	6	8	7	-	7-8	10	1500	1	4
	Guernsey ...	989·4	-20	S'E	5	r	53	92	6	5	-	-	10	10	1500	1	5
6	Pembroke ...	976·4	-20	SW'S	7	cq	51	85	7	8	-	-	9	9	1500	1	4
7	Holyhead ...	971·4	-50	SSW	7	c/r	50	85	7	9	2	-	7-8	10	1500	1	4
	Chester (Sealand)	977·2	-60	SE	5	rr	48	92	6	6	2	-	7-8	10	1500	1	*
8	Manchester ...	978·1	-60	SE'S	5	r∘r∘	49	85	7	5	-	-	7-8	7-8	2500	1	*
10	Spurn Head ...	984·9	-20	S'E	6	cq	47	85	7	-	-	7	0	10	-	0	3
	Catterick ...	980·7	-32	SE	3	ir∘	45	92	6	6	2	-	7-8	10	1500	1	*
	Tynemouth ...	980·5	-14	SW	5	c	47	75	6	5	-	-	10	10	800	1	2
11	St. Abbs Head...	977·2	0	S	6	bc/r	45	75	8	4	1	-	2-3	4-6	2500	1	4
	Leuchars ...	975·8	-4	SSW	5	bc	44	85	8	8	4	3	1	2-3	2500	1	*
12	Renfrew (Abbots I.)	974·1	-16	SE'E	3	IR	46	85	6	3	7	-	7-8	10	1500	2	*
	Eskdalemuir ...	975·6	-26	SSE	4	c	43	75	6	5	1	-	10	10	800	1	*
	Point of Ayre...	971·5	-46	SSE	6	rr	45	97	7	8	2	-	4-6	10	1500	1	4
13A	Tiree	968·6	-4	SE'S	5	bc	46	92	7	5	-	-	4-6	4-6	2500	0	4
13B	Stornoway ...	968·9	+14	S	5	c/pr	45	85	7	5	7	-	7-8	9	2500	1	3
15	Dalwhinnie ...	974·1	+14	S	6	bc	40	85	7	4	4	-	2-3	4-6	2500	6	*
	Aberdeen ...	976·0	+18	SW'S	4	bc	45	75	6	5	-	-	2-3	2-3	800	1	3
	Wick ...	971·7	+20	SW	3	bc	42	85	8	5	6	-	4-6	4-6	1500	1	2
16	Lerwick ...	968·4	+4	SW	8	rr	45	92	6	6	2	-	4-6	10	450	2	*
17	Blacksod Point	973·6	-10	SSW	7	cq	44	92	7	9	-	-	10	10	800	1	6
18	Malin Head ...	967·1	-32	S'E	4	c/	46	85	7	8	-	-	7-8	7-8	4000	1	4
	Aldergrove ...	968·0	-50	S	4	ir∘	46	85	6	6	2	-	4-6	10	1500	1	*
19	Birr Castle ...	969·2	-16	SSW	2	ir	43	97	7	6	2	-	7-8	10	1500	1	*
20	Valentia Obsy. †	967·3	+2	S'W	7	bc	50	65	8	8	-	-	4-6	4-6	2500	1	5
	Roches Point	972·2	+12	WSW	5	bc	49	85	8	6	-	-	4-6	4-6	1500	1	5

PAST 24 HOURS.

District	Stations	Weather. 7h.—12h. 15th (37)	Weather. 12h.—18h. 15th (38)	Weather. 18h. 15th to 1h. 16th (39)	Weather. 1h.—7h. 16th (40)
1	London (Kew)	cprbcz	becm∘r∘	crr∘rr	cpr∘cm∘
	Croydon ...	r∘cbc	cm∘c	r∘rrRR	ir∘pr∘bc
	S. Farnborough	cwrc	cir∘r∘c	cr∘Rc	crbccm∘
	Boscombe Down	bccprcm∘cm∘crrm∘	crrc	c∘b∘c	
	Calshot (Sthmtn.)	cpr∘bcm∘c cm∘c	cirrrRRc	cbcb	
	Lympne ...	omrrcbc	b∘c	cir∘qrr	cr∘r∘bcc
	Manston ...	crrqRbc	bcccm∘	cqRrr	crrbc
2	Shoeburyness ...	cir∘prbcq	bcq bc	bccr∘r∘	r∘rr∘c
	Felixstowe ...	cciRrrr∘	b∘cbcm∘	crrr∘r∘rr	cbc
	Gorleston ...	coPRhtlq	bccq	cprorrq	orrbcq
	Mildenhall ...	cbcprbc	bcm∘	crrc	bcb
	Cranwell ...	bcbpr∘b	c	ccr∘r	cbcpr
3	Birmingham ...	cPRtbc	bcorr∘	rRr	rc
	Upper Heyford	corqbc	ccr∘r∘	cr∘r∘r	cbPR
4	Ross-on-Wye	dqqbccpr	cqrrq	r∘qPqRq	cqPbc
5	Hartland Point	p∘bcc	crrp	cirltbc	bclpo
	Bristol ...	bccqPRc	cprrrq	crqirq	cbcqpr
	Portland Bill ...	co	oR	cbc	bcc
	Plymouth ...	pr∘bccm∘	r∘r∘rrm∘	cr∘r∘bcq	bcprq
	The Lizard ...	cbcpr	crrpr	phrlq	bp'r
	Scilly (St. Mary's)	bccqp∘	cir∘qp	irpqt	cpQ
	Guernsey ...	bbcc	oor	oRRc	cqbcl
6	Pembroke ...	cbcp∘	corrmRq	crrbcq	bcprlcPR
7	Holyhead ...	lbcpcc	crrc	prbm∘c	pr∘PRc
	Chester (Sealand)	bccpr	cr∘rrm∘	crrm∘	cr∘b
8	Manchester ...	cprbccpr	cpr∘r∘r∘	cr Rc	cirbc
10	Spurn Head ...	PRbc	coq	prqc	PRqb
	Catterick ...	bccpr	bcc ir∘	ir∘bc	ir∘bc
	Tynemouth ...	bccpcq	cbcq	cbcpb	bcoirc
11	St. Abbs Head...	cq	irqbc	cbcq	bcqir
	Leuchars ...	cir∘cbc	bc	bcc RR	or∘m∘
12	Renfrew (Abbots I.)	cm∘r∘ir∘	cIR	crrqc	cirbbc
	Eskdalemuir ...	orrqir	circ	rrir	circ
	Point of Ayre...	rrcbc	crrq	crrbq	corr
13A	Tiree	prc bc	bcc	bccir	orrdc
13B	Stornoway ...	cRR	cpr	cpr	cpr
15	Dalwhinnie ...	cRr	cir	*	cIR
	Aberdeen ...	RRr∘	cbcbz∘	boRor	oirbc
	Wick ...	cRr∘	r∘rbc	bc	cm∘
16	Lerwick ...	pr∘irrr	rrr∘rr	crrbc	ocirm∘
17	Blacksod Point	pr∘cq	PRcq	PRcq	Rrq
18	Malin Head ...	cbcc	cbcc	cRrccbc	bcc
	Aldergrove ...	cbc	cbccir∘m	RRir∘c	c∘r∘r∘
19	Birr Castle ...	bcc	cir	cIr	cirpr
20	Valentia Obsy. †	PRqtlphrc	cpr∘bc	bcprc	cprrrf
	Roches Point	phqtlpr	RRbc	PR lbc	cprc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
fs, low fog over sea (coast station).
f_g, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s_o, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s_o/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain.
rr, continuous rain.
<, less than (for cloud height). gale.
⊕, Solar halo. ☾ lunar halo. Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

COLUMNS 12, 13, 26, 27,

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. „ wet.
2 .. „ flooded.
3 .. „ frozen hard and dry.
4 .. „ partly covered with snow or hail.
5 .. „ covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. „ covered with snow, less than 6 ins., deep but ground not frozen.
8 .. „ covered with snow, less than 6 ins., but ground frozen
9 .. „ covered with snow greater than 6 ins. deep.

NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

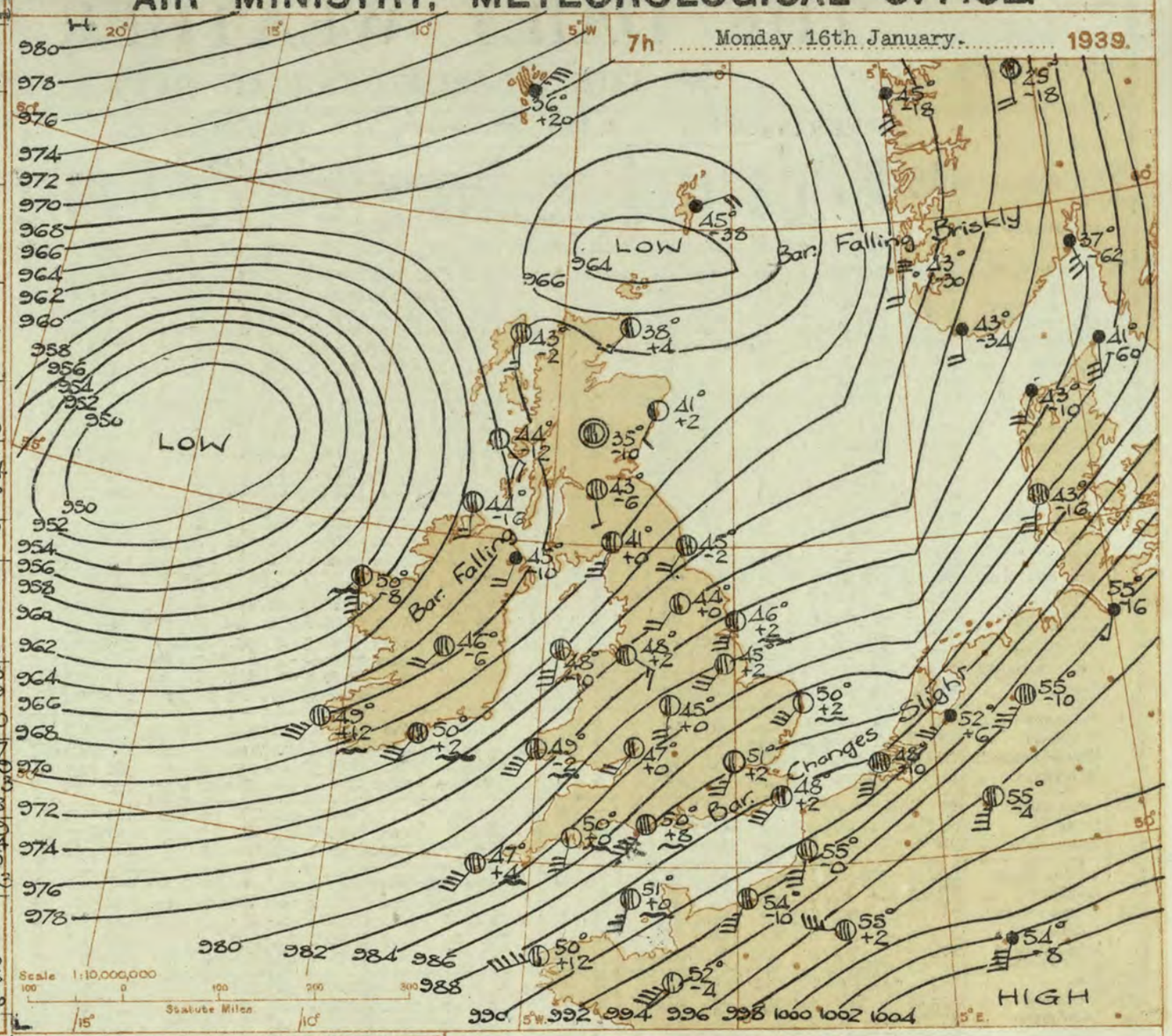
§ Sea disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 15th January 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F.) Min. 9h. 14th to 9h. 15th	Temperature. (°F.) Max. 9h.—17h. 15th	Rainfall. (mm.) Night. 17h. 14th to 9h. 15th	Rainfall. (mm.) Day. 9h.—17h. 15th	Sunshine (hrs.) Sunrise to Sunset. 15th
1	Tunbridge W.	cbc	bcco	35	56	16	–	1·9
	Bournemouth	bcbc	coo	39	53	18	–	2·0
	Ventnor ...	rob	ow	42	52	12	Trace	2·0
	Southsea ...	bcc	c	38	53	13	–	2·3
	Bognor Regis	bcpr	bccc	38	51	12	Trace	2·2
	Littlehampton	bc	bcc	35	51	11	–	1·7
	Worthing ...	crbcb	bbcc	38	51	11	0·5	2·3
	Brighton ...	bcpbc	bc	36	51	11	Trace	2·7
	Eastbourne† ...	bbcc	c	49	53	14	–	2·6
	Hastings† ...	bcbb	bcro	48	52	13	–	3·0
	Folkestone ..	bcbc	bcbc	40	52	9	–	3·8
	Dover ...	ocbcc	co	41	53	8	–	*
	Deal	Rcbb	bbcoo	40	53	17	–	4·3
	Ramsgate ...	cbc	bcc	40	53	17	–	4·1
	Margate ...	bc	bc	40	55	9	–	2·5
2	Southend ...	cbcb	bcco	33	54	7	–	2·6
	Clacton-on-Sea	ocbc	bcc	39	52	10	–	3·7
	Dovercourt ...	roc	rccbc	38	53	12	–	3·5
	Lowestoft ...	bcpt	bccc	32	53	9	0·1	3·4
	Skegness ...	cbcb	bcc	32	52	10	–	4·4
	Mablethorpe...	b	bco	30	53	8	–	4·6
	Cleethorpes ...	bbc	bcc	30	52	9	–	4·2
3	Leamington S.	bc	cor	32	54	10	0·5	2·0
4	Cheltenham†	cirbc	corr	34	55	9	2	2·1
5	Bath	qbbcc	qcr	32	54	8	0·5	1·6
	Weymouth ...	cbc	bcr	44	54	12	Trace	2·0
	Jersey ...	crbc	bcc	46	54	4	–	2·6
	Torquay ...	cbcq	oprq	45	54	10	1	0·6
	Falmouth	qcqf	qorq	46	53	4	7	0·3
	Penzance ...	bqc in	brqb	47	54	3	3	0·3
	St. Ives ...							0·9
	Bude... ...	cbc	roc	46	54	5	4	
	Ilfracombe ...	rroc	rrorr	42	54	8	4	0·0
6	Aberystwyth	pccbc	cpr	40	53	12	3	0·7
7	Llandudno ...	ctlr	bccr	37	54	12	5	0·5
	Colwyn Bay...	bchrt	cpopo	37	51	21	5	0·5
	Rhyl	cprh	cbccr	35	53	14	5	1·8
8	Wallasey ...	cbcp	bccor	34	54	13	1	1·5
	Southport ...	rcbcp	ccor	32	51	18	1	1·4
	Blackpool ...	bccm.	qfor	33	50	14	1	1·5
	Morecambe ...	bcbc	irpb	30	51	9	3	1·3
9	Ilkley... ...	hrcbc	cpor	28	49	22	0·5	1·3
	Harrogate ...	bcp	bccp	26	48	18	1	2·5
10	Berwick-on-T.	oirc	bc	31	50	5	0·6	3·5
11	Dunbar ...	cpf.	bcm.	28	51	8	–	3·6
12	Troon... ...	ocbco	ccoco	36	49	15	–	1·8
	Douglas ...	cfR	bcfpr	39	50	26	0·3	1·6

* Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.–9h.

AIR MINISTRY, METEOROLOGICAL OFFICE.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 16th January, 1939.

Districts.	Forecasts
1 S.E. England ↓ 2 E. England ... ↓ 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England ↓ 6 South Wales ... ↓	Southwest or south gales, severe at times; some periods of rain but bright at times, chance of local thunder; mild.
7 North Wales ... ↓ 8 N.W. England ↓ 9 N. Midlands ... 10 N.E. England ↓ 11 S.E. Scotland ↓ 12 S.W. Scotland & Isle of Man. ↓ 13 A. W. Scotld. B.N.W.Scotland. ↓ 14 Mid Scotland 15 N. E. Scotland ↓ 16 Orkney and Shetland ↓ 17 N. W. Ireland ↓ 18 N. E. Ireland ↓ 19 S. E. Ireland ↓ 20 S. W. Ireland ↓	South or southwest gales; occasional heavy showers and local rain, chance of thunder; some bright periods; mild.

GENERAL INFERENCE.

Pressure is very low to the northwest of Ireland and a secondary is developing near the Azores and will move eastnortheast and then northeast. There will be gales in most districts and some general rain will spread northeast across the southern and eastern part of the country it will continue mild.

FURTHER OUTLOOK.

Continuing stormy and mild.

Times of Issue of Gale Warnings

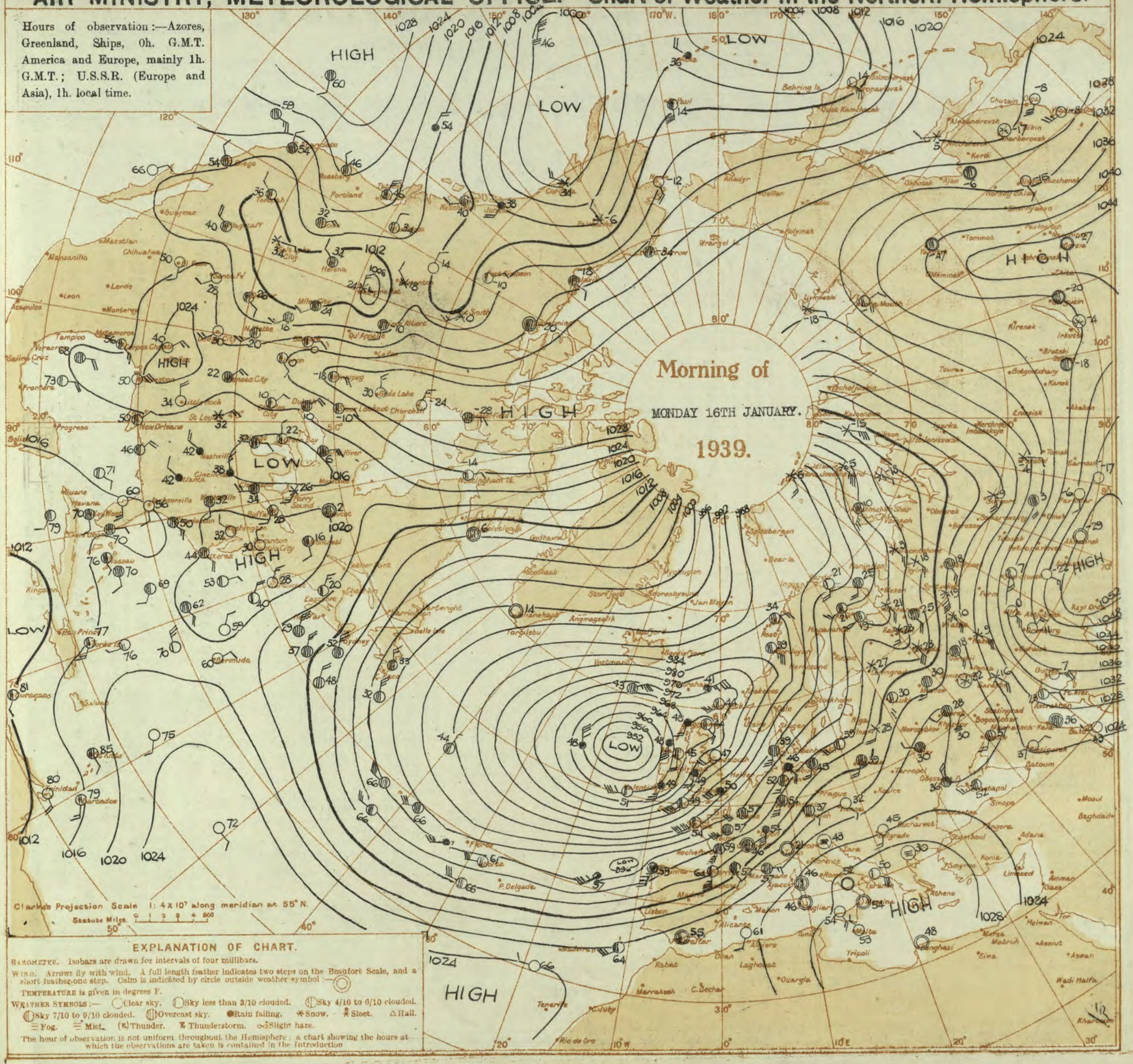
↓ South Cone hoisted at 0810 14th in districts 5,6,7,8,12,13A, 17,18,19,20, at 1900 on 14th in district 13B, at 0130 on 15th in all other coastal districts.

Forecasts issued at 1030 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S.
Director.

H.M. Stationery Office Press, Kingsway, W.C.2. C.139/3623 m 3096. 0.3769. Kp. 348 29/40. 1/39.

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS :— Clear sky. Sky less than 3/10 clouded. Sky 4/10 to 6/10 clouded. Sky 7/10 to 9/10 clouded. Overcast sky. Rain falling. Snow. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.

The hour of observation is not uniform throughout the Hemisphere ; a chart showing the hours at which the observations are taken is contained in the Introduction

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Monday 16th January, 1939.
No. 28179

OBSERVATIONS at 1 hr. G.M.T. 16th January

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	985·8	-12	SWS	6	ir.	50	92	7	6	2	-	7-8	10	1500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	989·1	-10	SSW	5	r₀r₀	48	97	5	6	2	-	9	10	800
	Manston ...	154	987·6	-12	SW	6	rr	49	92	6	5	7	-	7-8	10	7200
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	984·0	-36	SWS	5	rr	48	97	6	6	-	-	10	10	800
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	978·6	+10	SW	8	bc	48	85	8	5	-	-	2-3	2-3	1500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	984·1	-8	SW	7	bc	50	92	7	5	-	-	4-6	4-6	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	981·5	+10	SW	8	b	50	92	8	-	-	-	0	0	-
	Scilly (St. Mary's)	163	979·3	+8	SW	7	bc/pr	49	85	6	3	8	-	4-6	4-6	1500
	Guernsey ..	175	987·7	+24	SSW	6	cq	52	85	7	8	3	-	4-6	9+	2500
6	Pembroke ...	142	975·7	-8	SSW	7	bcq	49	75	7	5	-	-	4-6	4-6	1500
7	Holyhead ...	26	972·5	-14	SW	4	pr	49	92	6	5	1	-	2-3	9	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	977·6	-14	S	5	eq	48	92	7	6	2	-	4-6	10	2500
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	974·2	0	SW	4	b	47	75	7	-	-	-	0	0	-
11	St Abbs Head ..	280	971·4	+16	SW	6	bcq	45	75	8	4	6	-	2-3	2-3	2500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	972·1	*	SW	4	b	47	85	8	5	-	-	1	1	2500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	968·0	-6	SSW	3	pr	45	85	7	8	-	-	9	9	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	967·6	-32	SSE	3	bc	44	92	7	5	1	-	2-3	4-6	1500
16	Lerwick ...	156	970·4	-14	SW	5	bc	44	92	8	5	2	-	4-6	4-6	1500
17	Blacksod Point	18	960·8	-20	SSE	7	cq	49	85	7	9	-	-	9+	9+	800
18	Malin Head ...	84	966·0	-6	SW	4	bc	45	85	7	4	-	-	4-6	4-6	4000
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	963·9	-10	SW	7	r₀r₀	49	92	6	5	-	-	10	10	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 16th January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	985·7	0	SSW	5	z₀	51	75	6	5	-	-	7-8	7-8	1500	1	*
Croydon	986·6	+2	SSW	5	bc/pr	51	75	8	8	4	-	1	2-3	2500	1	*
S. Farnborough	985·5	-4	SWS	6	z₀	50	75	6	5	-	-	9+	9+	2500	2	*
Boscombe Down	984·2	-4	SWS	6	c	49	85	7	5	-	-	9+	9+	1500	1	*
Calshot (Sthmtn.)	987·0	*	SSW	6	bc	50	85	7	5	3	-	1	2-3	2500	1	4
Lympne	989·8	+2	SW	6	e/pr	48	85	7	5	-	-	9+	9+	5700	1	§4
Manston	988·6	+6	SSW	6	bc	51	85	8	-	7	-	0	4-6	-	1	*
Shoeburyness	987·7	+4	SW	5	c	50	85	8	6	2	-	4-6	7-8	800	1	*
Felixstowe	987·0	+4	SSW	5	bc	48	85	7	5	4	8	Tr	4-6	2500	1	4
Gorleston	984·9	+2	SW	6	b	50	75	8	-	2	-	0	1	-	1	4
Mildenhall	983·3	-2	SSW	5	b	50	75	8	5	-	-	1	1	1500	1	*
Cranwell	980·2	+2	SW	6	c	45	75	7	5	-	-	7-8	7-8	2500	1	*
Birmingham	980·5	0	SSW	4	bc	45	85	8	5	7	-	1	2-3	2500	1	*
Upper Heyford	983·8	0	SSW	4	PR	47	75	7	5	-	-	9+	9+	1500	1	*
Ross-on-Wye	981·1	0	SW	4	bc	47	75	7	6	-	-	2-3	2-3	1500	1	*
Hartland Point	977·6	-6	WSW	8	ir	48	75	8	8	-	-	7-8	7-8	1500	1	4
Bristol	983·1	-2	SSW	5	bcq	47	75	7	5	-	-	4-6	4-6	1500	1	*
Portland Bill	984·6	+8	SW	7	c	50	92	7	5	-	-	7-8	7-8	2500	1	5
Plymouth	983·0	0	SSW	6	bq	50	75	8	8	-	-	1	1	2500	1	5
The Lizard	982·8	+20	SWW	7	c	48	92	7	8	2	-	7-8	9	1500	1	4
Scilly (St. Mary's)	980·2	+4	SWS	8	e/pr	47	85	7	8	6	3	4-6	7-8	1500	1	5
Guernsey	988·5	0	SSW	5	bcl	51	75	7	-	3	-	0	4-6	-	1	5
Pembroke	976·0	-2	SW	8	cq	49	85	7	8	-	-	7-8	7-8	1500	1	5
Holyhead	971·8	-10	SSW	6	e/pr	48	85	7	8	-	-	10	10	1500	1	3
Chester (Sealand)	976·3	+2	SE	3	c	48	75	8	5	-	-	7-8	7-8	5700	1	*
Manchester	976·8	0	SE	4	bc	46	75	7	5	3	-	4-6	4-6	4000	1	*
Spurn Head	978·4	+2	SSW	5	eq	46	85	7	6	2	-	4-6	7-8	2500	1	4
Catterick	975·1	0	SWS	4	bc	44	85	7	5	-	-	4-6	4-6	1500	1	*
Tynemouth	972·2	-2	SW	4	e/r	45	75	7	8	-	-	7-8	7-8	1500	1	1
St Abbs Head	970·5	0	S	3	bc/r	42	92	8	3	6	9	2-3	4-6	1500	1	3
Leuchars	969·6	-6	SW	2	ir	40	92	6	-	2	-	10	10	2500	1	*
Renfrew (Abbots I.)	969·5	-6	SE	1	c	43	92	8	5	-	-	9+	9+	4000	1	*
Eskdalemuir	971·5	0	SSW	5	c	41	92	6	5	-	-	9+	9+	1500	1	*
Point of Ayre	969·9	-8	SW	6	rr	47	85	6	-	2	-	10	10	800	1	4
Tiree	965·1	-12	SES	4	bc	44	97	7	5	-	-	4-6	4-6	2500	1	*
Stornoway	968·1	-2	S	3	c/pr	43	92	8	5	1	-	4-6	9+	2500	1	2
Dalwhinnie	969·4	-10	-	0	c	35	97	6	4	2	-	4-6	7-8	1500	1	*
Aberdeen	969·1	+2	SWS	2	bc	41	92	7	5	7	-	1	2-3	2500	1	2
Wick	966·5	+4	SW	3	c	38	97	6	5	2	-	7-8	10	1500	1	2
Lerwick	964·5	-38	ENE	4	ir	45	92	6	6	2	-	4-6	10	800	1	*
Blacksod Point	959·7	-8	S	6	c	50	92	7	9	-	-	7-8	7-8	800	2	5
Malin Head	964·2	-16	S	3	c	44	92	8	8	-	-	9	9	5700	1	3
Aldergrove	966·6	+10	SSW	4	r₀r₀	45	85	7	6	-	-	10	10	2500	1	*
Birr Castle	967·2	+6	SW	4	c/pr	46	85	8	8	-	-	7-8	7-8	1500	1	*
Valentia Obsy. †	967·4	+12	SW	7	c	49	85	6	5	-	-	10	10	1500	1	5
Roches Point	970·9	+2	SW	6	c	50	85	6	-	-	-	7-8	7-8	1500	1	5

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 15th Hrs. (36)
London (Kew)	54	50	46	1	7	2·2
Croydon	53	49	47	3	19	1·5
S. Farnborough	53	48	45	0·3	8	2·1
Boscombe Down	53	46	42	2	5	0·9
Calshot (Sthmtn.)	53	48	46	0·1	7	0·0
Lympne	52	47	45	0·5	3	4·0
Manston	54	49	48	5	3	4·5
Shoeburyness	55	48	44	0·1	6	2·6
Felixstowe	53	44	42	2	4	3·8
Gorleston	54	45	43	4	6	2·6
Mildenhall	55	49	44	0·6	1	3·5
Cranwell	52	45	42	Tr	2	3·7
Birmingham	51	44	41	4	11	2·2
Upper Heyford	52	46	41	1	4	*
Ross-on-Wye	52	46	42	5	11	1·7
Hartland Point	54	46	44	1	2	0·4
Bristol	53	45	41	3	2	1·3
Portland Bill	50	45	*	3	2	*
Plymouth	53	48	45	5	0·5	0·4
The Lizard	52	46	*	5	3	0·1
Scilly (St. Mary's)	53	45	*	2	2	0·0
Guernsey	54	50	45	0·1	27	1·3
Pembroke	52	45	*	3	3	0·5
Holyhead	51	44	43	4	4	0·1
Chester (Sealand)	54	47	40	3	4	2·1
Manchester	53	44	39	0·4	4	1·9
Spurn Head	51	45	*	1	2	3·6
Catterick	50	42	40	4	2	2·3
Tynemouth	51	44	40	0·2	4	2·3
St Abbs Head	48	41	*	1	3	*
Leuchars	49	37	31	0·5	7	2·5
Renfrew (Abbots I.)	49	40	31	2	7	0·1
Eskdalemuir	46	40	37	7	9	0·3
Point of Ayre	51	43	*	4	4	2·6
Tiree	48	42	41	-	5	2·5
Stornoway	48	43	*	14	1	0·0
Dalwhinnie	42	34	31	16	7	0·4
Aberdeen	49	41	36	3	9	0·5
Wick	45	37	*	12	-	*
Lerwick	45	41	*	12	5	0·0
Blacksod Point	53	42	*	2	11	*
Malin Head	48	41	*	0·6	3	2·2
Aldergrove	49	40	37	0·3	12	2·5
Birr Castle	50	41	34	9	4	1·2
Valentia Obsy. †	52	46	43	4	8	0·0
Roches Point	51	44	*	13	5	*

LONDON OBSERVATIONS

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except for rainfall which is 9h—18h.

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h. (To-day)
Kew ...	18	cprbcz₀	bccm₀r₀	cr₀r₀rrm	54	50	46	1	7	2·2	*	*	7
Croydon ...	217	r₀cbc	em₀c	rrRRpr₀bc	53	49	47	3	·19	1·5	*	*	6
Greenwich (Royal Observatory)...	149	c	c	rRrcr	54	48	44	-	14	1·4	77	87	6
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*	0·3	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	55	50	45	9			71	79	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*	55	49	46	-	8	0·7	79	79	*
Camden Square ...	110	bcd	o	*	54	49	45	-	7	*	*	77	*
Kensington ...	80	bc	bcp	*	55	50	43	0·3	8	1·4	At 18h. 70	71	*
Hampstead Observatory ...	450	bc	or	or	53	48	43	-	6	0·5	*	75	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 16th

South Kensington. Max.	Time.	Min.	Time.
<0·3 Whole period.			

Kew Observatory. Max.	Time.	Min.	Time.
0·1	12-17h 15th	<0·1	0-7h 16th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 15th January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 16th January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris ...	1001·7	SSW	4	c	57	997·7	W'N	5	c/r	55	57	55	Tr	Tr
Brussels ...	1000·5	SSW	5	bc	54						55		0·6	
Berlin ...						1001·8	S'W	5	r₀r₀	46		41		2
Zürich ...	1016·6	S	1	c	46	1013·6	SE	3	c	39	52	37	-	-
Rome ...						1025·1	SE	5	c	55	*	*		-

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	<1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	> 75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

		Objects not visible at
0	Dense fog	55 yards.
1	Thick fog	220 „
2	Fog	550 „
3	Moderate fog	1,100 „
4	Mist or haze	1¼ miles.
5	Poor visibility	2½ „
6	Moderate „	6¼ „
7	Good „	12½ „
8	Very good „	31 „
9	Excellent „	beyond 31m.

COLUMN 30.—Code for State of Sea.

0 Calm. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 Precipitous.
4 Rough. 9 Confused.

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY, LONDON, W.C.2. N. K. JOHNSON, M.Sc., A.R.C.S., Director.

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

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AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 17th January, 1939

No. 28180

OBSERVATIONS at 13h. G.M.T. 16th January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Med. (10)	High (11)	Amount Low 0–10 (12)	Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	988·6	+16	SW'S	5	c	50	65	7	5	9	3	2-3	9	1500
	Croydon ...	989·6	+14	SW'S	5	cq	48	75	8	5	3	3	2-3	9	4000
	S. Farnborough	988·8	+14	SW	6	bc	50	65	7	7	3	1	2-3	4-6	2500
	Boscombe Down	987·5	+10	SWW	5	c	50	75	8	8	7	3	2-3	9	1500
	Calshot (Sthmtn.)	990·4	+18	SW'S	6	c	49	76	7	5	9	-	2-3	9	1500
	Lympne ...	991·8	+16	SW'W	6	c	50	75	7	9	-	-	9+	9+	1500
	Manston ...	990·5	+14	SWW	7	c	51	65	8	8	7	-	7-8	9	1500
2	Shoeburyness ...	989·8	+2	SW'W	5	c/phr	49	75	8	9	7	3	2-3	7-8	1500
	Felixstowe ...	988·8	+10	SSW	6	pr	48	75	7	5	2	8	1	9+	1500
	Gorleston ...	986·5	+4	SW'S	6	bc/pr	51	65	6	5	-	-	4-6	4-6	2500
	Mildenhall ...	985·6	+6	SW'S	6	c	51	75	7	5	7	-	7-8	9+	4000
	Cranwell ...	981·6	+2	SSW	6	c	50	75	8	5	3	3	2-3	9	1500
3	Birmingham ...	982·7	+10	SW	5	c/pr	47	85	7	9	7	-	7-8	9	1500
	Upper Heyford	986·4	+22	SW'S	5	c/pr	48	75	8	8	7	-	9	9+	1500
4	Ross-on-Wye	984·1	+10	SW	6	c,jp	49	75	8	9	-	3	7-8	9+	2500
5	Hartland Point	982·7	+16	WSW	8	c	49	75	7	8	-	3	2-3	4-6	1500
	Bristol ...	986·3	+14	SSW	6	c	49	75	8	6	7	8	4-6	9	1500
	Portland Bill ...	989·2	+22	SW	6	c	51	85	7	5	6	-	7-8	10	2500
	Plymouth ...	987·4	+10	SW'S	7	c/pr	51	76	7	9	7	-	4-6	9+	2500
	The Lizard ...	986·2	-16	SW'S	7	c	51	92	7	8	2	-	7-8	10	1500
	Scilly (St. Mary's)	984·1	+2	SW'S	6	c	51	75	6	8	6	-	4-6	9+	1500
	Guernsey ...	991·7	+4	SW'S	5	bc	55	75	7	5	-	-	2-3	4-6	2500
6	Pembroke ...	980·4	+10	SW	8	bcq	49	76	7	8	4	-	4-6	4-6	1500
7	Holyhead ...	975·0	+10	SW'S	7	c	51	85	6	1	8	8	2-3	7-8	1500
	Chester (Sealand)	979·0	+16	SSW	6	c/pr	54	65	8	8	7	-	4-6	9	2500
8	Manchester ...	978·7	+10	SSW	5	c/pr	49	75	6	8	7	-	7-8	9	2500
10	Spurn Head ...	979·9	+4	SW	6	cq	47	75	7	6	-	3	2-3	7-8	2500
	Catterick ...	976·0	0	SSW	5	ic	48	85	6	6	7	-	7-8	9+	1500
	Tynemouth ...	973·6	+4	SSW	6	c	49	75	6	8	-	-	9-	9+	1500
11	St. Abbs Head...	971·4	0	WSW	5	c/r	47	85	8	8	2	-	4-6	9	1500
	Leuchars ...	970·5	+2	SSW	1	c/d	43	92	7	5	2	-	7-8	10	1500
12	Renfrew (Abbots I.)	970·5	+14	SW'S	3	c.s	48	85	7	5	7	2	4-6	9	2500
	Eskdalemuir ...	971·7	+10	SW	6	c/r	44	92	7	6	-	-	10	10	800
	Point of Ayre...	973·4	+20	WSW	5	c	49	75	7	8	1	-	7-8	10	1500
13A	Tiree ...	966·5	+4	SSE	4	dr	46	97	6	-	2	-	9+	9+	1500
13B	Stornoway ...	970·3	+4	ESE	1	c	46	85	8	5	5	-	4-6	7-8	2500
15	Dalwhinnie ...	970·8	+6	S	2	c	40	92	7	4	2	-	4-6	10	1500
	Aberdeen ...	970·7	+4	SSW	1	c	43	92	4	6	7	-	9	9+	800
	Wick ...	968·9	+8	SW	2	c	45	85	7	5	1	1	4-6	7-8	1500
16	Lerwick ...	965·7	+12	W	4	c	44	85	8	8	7	-	4-6	7-8	800
17	Blacksod Point	963·9	+8	S	6	cq	50	92	7	9	-	-	9	9	800
18	Malin Head ...	966·1	+8	S	5	c	49	85	8	2	4	2	2-3	7-8	4000
	Aldergrove ...	969·9	+14	SW	4	ic	47	85	8	6	-	-	10	10	800
19	Birr Castle ...	970·9	+10	SW	2	c/pr	46	92	7	6	2	-	4-6	10	800
20	Valentia Obsy. †	970·0	+2	SW'S	7	c	50	75	8	6	-	-	10	10	1500
	Roches Point	975·3	+10	WSW	6	bc	51	85	7	3	-	-	4-6	4-6	1500

OBSERVATIONS at 18h. G.M.T. 16th January — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Med. (24)	High (25)	Amount Low 0–10 (26)	Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.–13h. 16th (37)	13h.–18h. 16th (38)	18h 16th to 1h. 17th (39)	1h.–7h. 17th (40)
London (Kew)	988·2	-12	S	4	r0r0	50	75	7	5	-	-	10	10	1500	1	*	cmrrc	er0	cr0rrr0c	c
Croydon	989·9	-4	S'W	5	ir	50	75	6	6	2	-	4-6	10	1500	1	*	cprqpr0	ebez0	rrRqbcc	cbccpr
S. Farnborough	987·9	-16	S'W	4	r0r0	49	75	6	-	2	-	10	10	4000	1	*	cprqbc	bccir0	cRRb	bm0cir0
Boscombe Down	987·0	-14	SSW	6	rr	46	85	6	6	2	-	9+	10	800	1	*	cpr0bcc	cpr0crr	crmbcc	ccm0
Calshot (Sthmtn.)	988·7	-22	S	6	iR	48	85	6	5	-	-	10	10	1500	1	3	ccphrqc	cmciR	ciRr0cbc	bcbbc
Lympne	992·5	-12	SSW	5	bc	47	85	7	5	-	6	2-3	4-6	4000	1	§4	crrprbc	cbbc	bccirqc	cbcc
Manston	991·4	-2	S'W	3	c	49	75	7	5	-	6	7-8	7-8	4000	1	*	bccpr	cpr0bc	crrqbc	bc
Shoeburyness	990·6	-2	SW'S	5	c	47	85	7	5	7	-	4-6	7-8	1500	1	*	PRhqc	cbcb	cr0r0bc	bcc
Felixstowe	990·7	+2	SSW	5	z0	46	85	6	5	-	-	2-3	2-3	2500	1	4	bccprb	cpr0bm0	bm0crr0c	c, bbc
Gorleston	989·0	+10	SW'S	4	bc	48	75	6	5	-	-	2-3	2-3	2500	1	4	bccpr0	bcpr0q	bcqorrb	bcq
Mildenhall	987·4	+4	SSW	4	c	49	75	7	5	7	-	4-6	9+	2500	1	*	bcprtlbcc	cbcc	crrcb	bbcb
Cranwell	984·1	+6	S'W	5	bc	46	85	7	-	7	6	0	4-6	-	1	*	cbbcc	cbc	bccr0b	b
Birmingham	984·3	+2	SSW	3	bc	45	75	7	5	7	-	4-6	4-6	1500	1	*	bcpr0	bcpr0	pr cr0	cr0
Upper Heyford	987·0	+2	SSW	3	iR	47	92	7	-	2	-	10	10	800	1	*	cPRbccpr	cprbccr	RRbbcc	cbcb
Ross-on-Wye	984·7	0	SW	4	bc/pr	45	85	7	6	-	-	4-6	4-6	2500	1	*	bccqpcq	pqcrqcp	pbccqPR	cq
Hartland Point	983·0	0	SW	7	bc	45	85	8	8	4	-	4-6	4-6	1500	1	4	cirpbc	bcc p	ocp	cbc
Bristol	986·2	-6	SSW	4	c	46	85	7	6	2	-	7-8	10	1500	1	*	bccPRq	cpPR	cp0bcb	b
Portland Bill	986·3	-20	WSW	6	RR	48	92	7	5	-	-	10	10	800	2	6	c	oR	cbc	bcc
Plymouth	986·0	-4	SW'S	6	c/phr	47	85	7	6	2	-	4-6	9+	1500	1	4	b,cprh,pr	cqpr0h	obcb	b,c
The Lizard	986·9	+8	WSW	5	c	48	92	8	8	6	-	7-8	9+	1500	1	3	cprqc	cprc	cbcq	bc
Scilly (St. Mary's)	984·4	+6	SW	6	bc	49	85	7	8	7	-	4-6	4-6	1500	1	5	cRbcc	cpqbc	bcpb	bbcc
Guernsey	988·4	-20	SW	5	o	50	85	7	5	-	-	10	10	1500	1	5	bcl0pr	coiR	cprbc	bcodd
Pembroke	980·9	+6	WSW	6	bcq	49	85	7	8	-	-	4-6	4-6	1500	1	4	cpr0qbc	bcq	prcq	cqbc
Holyhead	977·2	+22	SSW	5	c	49	85	7	7	-	6	7-8	9	1500	1	4	cbcm	bcpr0c	bcprc	bcprc
Chester (Sealand)	980·7	+4	S'E	3	bc	49	65	7	8	-	-	4-6	4-6	2500	1	*	cpr0	cbcpr0	b, cr0r	b bc
Manchester	981·4	+12	S	4	bc	47	75	7	5	3	-	2-3	4-6	2500	1	*	bccpr0pr	cz0pr0bc	bccpr0r0	cr0cprz0
Spurn Head	984·1	+18	SSW	4	bc	45	85	6	5	4	-	2-3	4-6	4000	0	3	cq	cqbc	pr0bc	cq
Catterick	979·2	+14	SW'S	4	bc	47	75	7	5	4	-	2-3	4-6	1500	1	*	cir0m0	cmr0bc	bbcm0	ir0cm0
Tynemouth	978·0	+20	WSW	5	c	48	75	6	9	-	-	9+	9+	800	1	2	c	cpc	cbc	bcp
St. Abbs Head	974·6	+16	SW	5	rr	46	86	7	8	2	-	7-8	10	1500	1	3	r0rcq	rrcq	cir	crr
Leuchars	973·2	+14	SSW	3	ir	45	92	6	6	7	-	9	9+	800	1	*	rr0cid0	r0pcir	cr0rr0m0	bcorr
Renfrew (Abbots I.)	972·9	+14	S'W	3	r0r0	47	85	5	-	2	-	10	10	4000	1	*	rd0r0c0e	cm0id0rr0	r0r0ir0m0	cRRDo
Eskdalemuir	974·9	+20	SSW	7	O	43	92	6	6	-	-	10	10	450	1	*	orrm0	orrm0	orr	orr
Point of Ayre	975·5	+12	SW	6	c	48	85	7	5	4	-	4-6	7-8	2500	1	4	rrirc	c	r0r0c	r0cr0
Tiree	968·8	+10	SSE	3	bc	45	97	7	5	-	-	4-6	4-6	2500	0	3	cidr	cirbc	cid0	c idbc
Stornoway	970·9	+14	E	2	rr	44	92	7	5	2	-	4-6	10	1500	1	1	c	cpr0r	cRR pr	c
Dalwhinnie	972·2	+14	S	2	c	40	92	6	4	2	-	4-6	10	1500	1	*	c	cir	*	cir
Aberdeen	973·1	+22	SW	1	c	42	92	5	5	3	-	4-6	7-8	1500	1	2	bccz	czz0	cz0	crcm0
Wick	971·2	+16	WSW	2	bc	45	92	7	5	4	-	2-3	4-6	1500	1	1	cme	cbc	bcr0r	r0r0c
Lerwick	967·8	+12	W	5	c	43	75	8	8	7	-	4-6	7-8	1500	1	*	cir0	cpr0	cprid0	cpr0bc
Blacksod Point	964·3	+10	S	7	cq	49	92	7	9	-	-	9+	9+	800	1	5	cq	prcq	PRcq	Rrq
Malin Head	967·7	+16	S	5	c/d	48	85	7	4	-	-	7-8	7-8	7200	1	3	cbcc	cbcc	c	cidc
Aldergrove	971·1	+10	SW'S	4	c	48	75	7	5	-	-	9+	9+	1500	1	*	r0r0cir0	cir0c	c, ir0c	cir0c
Birr Castle	970·7	+2	SW	3	c	48	85	7	6	2	-	4-6	9+	800	1	*	cpr	cprc	cprc	cir0
Valentia Obsy. †	971·9	+22	SWW	6	cjp	50	85	8	9	3	-	9	9	1500	1	5	phrprc	pr0prc	crrcpr0	pr0c
Roches Point	974·8	-2	WSW	6	iR	48	92	7	6	-	-	7-8	7-8	1500	1	5	cprbc	bccir	cir0bc	bc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog ,, less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s₀ slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
⊕, Solar halo. Ⓤ lunar halo. Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus :—bc/r, fair weather after rain ; —, has decreased ; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations :—
Cirrus,–Ci : Cirrocumulus,–Cc : Cirrostratus,–Cs : Altocumulus,–Ac : Altostratus,–As : Stratocumulus,–Sc : Stratus,–St : Nimbostratus,–Ns : Cumulus,–Cu : Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 . . Ground dry.
1 . . ,, wet.
2 . . ,, flooded.
3 . . ,, frozen hard and dry.
4 . . ,, partly covered with snow or hail.
5 . . ,, covered with ice or glazed frost.
6 . . Ground covered with thawing snow.
7 . . ,, covered with snow, less than 6 ins., deep but ground not frozen.
8 . . ,, covered with snow, less than 6 ins., but ground frozen
9 . . ,, covered with snow greater than 6 ins. deep.

NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

§ Sea disturbance reported from Dungeness.

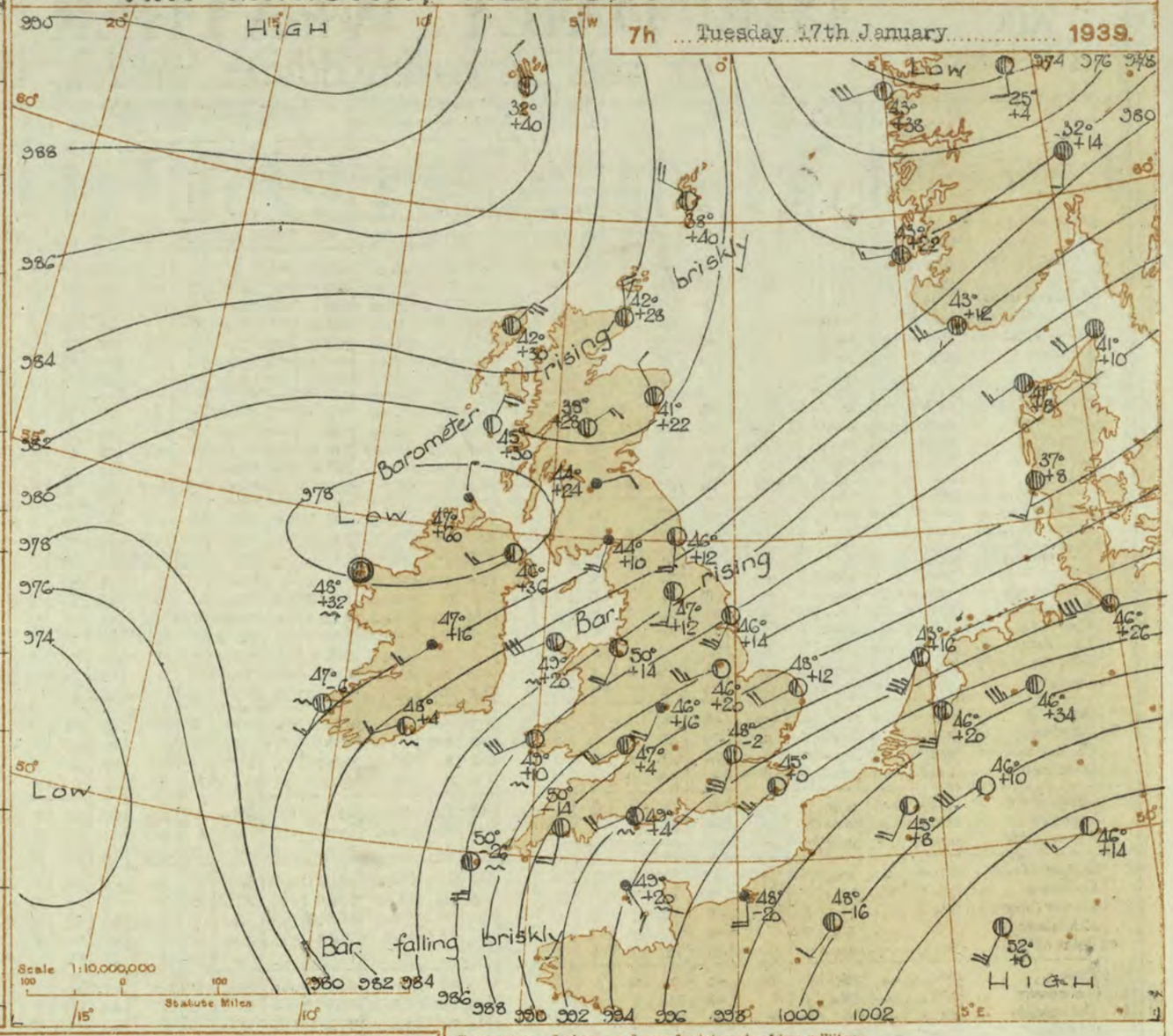
REPORTS from HEALTH RESORTS for 16th January 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F.) Min. 9h. 15th. to 9h. 16th	Temperature. (°F.) Max. 9h.—17h. 16th.	Rainfall. (mm.) Night. 17h. 15th to 9h. 16th	Rainfall. (mm.) Day. 9h.—17h. 16th.	Sunshine (hrs.) Sunrise to Sunset. 16th.
1	Tunbridge W.	rhebe	bee	48	50	19	3	1·5
	Bournemouth	phpbe	beer	48	52	5	2	2·1
	Ventnor ...	rtbe	beer	45	51	18	0·5	2·9
	Southsea ...	bepe	bee	47	52	14	0·2	2·6
	Bognor Regis	bepr	bepr	44	50	13	t	1·8
	Littlehampton	bepbe	beer	42	51	15	1	2·9
	Worthing ...	erbe	ebear	45	51	20	Trace	3·5
	Brighton ...	bepe	e	46	51	19	0·3	2·6
	Eastbourne† ...	bege	ebee	40	52	5	0·3	3·6
	Hastings† ...	ebep	bbeep	48	54	3	Trace	3·0
	Folkestone ...	eirebe	bebee	48	51	5	Trace	2·7
	Dover ...	epebe	beebe	48	52	3	Trace	1·6
	Deal	orb	birb	48	51	3	Trace	3·0
	Ramsgate ...	ebe	bee	48	52	3	-	2·6
	Margate ...	epbe	be	49	54	2	0·3	2·5
2	Southend ...	eorq	ebe	47	50	5	2	2·9
	Clacton-on-Sea	epbe	bepbe	44	48	4	1	2·7
	Dovercourt ...	rqebe	bepbe	43	51	5	1	2·8
	Lowestoft ...	bbee	bee	44	51	4	-	2·2
	Skegness ...	ebebe	bbee	43	52	10	-	3·2
	Mablethorpe...	be	b	45	51	2	-	3·8
	Cleethorpes ...	be	berg	45	50	3	Trace	2·3
3	Leamington S.	o	oeo	43	50	12	-	0·1
4	Cheltenham†	eir	epeo	41	52	18	0·5	0·1
5	Bath	epbeq	bepeq	47	52	7	3	1·1
	Weymouth ...	e	ber	44	53	8	2	1·0
	Jersey ...	rebe	beerr	44	53	5	4	4·6
	Torquay ...	orpeqr	epRq	46	53	16	4	0·7
	Falmouth	oqrqp	eoqqr	45	51	5	1	0·8
	Penzance ...	eqbee	ehrpe	45	53	24	4	1·0
	St. Ives ...	-	-		-	-	-	
	Bude... ...	bee	epr	48	52	14	3	1·9
	Ilfracombe ...	rrorr	oer	42	52	14	2	0·0
6	Aberystwyth	pre	bee	45	53	6	-	0·6
7	Llandudno ...	rqbe	bepe	44	52	5	0·2	2·3
	Colwyn Bay...	epe	ephe	45	50	7	2	0·1
	Rhyl	epr	ebe	44	52	5	Trace	0·7
8	Wallasey ...	e	ebeqp	39	52	2	Trace	0·8
	Southport ...	pe	eqebe	44	50	5	0·4	0·0
	Blackpool ...	e	ebery	43	48	5	-	0·1
	Morecambe ...	prbe	be	43	49	5	Trace	0·0
9	Ilkley... ...	odo	epebe	44	50	2	0·2	0·7
	Harrogate ...	ebep	beb	41	49	1	Trace	0·5
10	Berwick-on-T.	eir	oire	42	49	0·6	2	0·0
11	Dunbar ...	epro	epro	42	50	3	0·5	0·3
12	Troon... ...	oeo	eop	42	48	5	Trace	0·0
	Douglas ...	eir	eirq	45	50	6	Trace	0·0

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.

AIR MINISTRY, METEOROLOGICAL OFFICE

7h ... Tuesday 17th January ..... 1939.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	Forecasts for the 24 hours commencing 12 noon, G.M.T. 17th January, 1939.
1 S.E. England ▼ 2 E. England ... ▼ 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England ▼ 6 South Wales ... ▼	Strong south or southwest winds, a gale locally, veering and moderating later; cloudy or dull at first with a period of rain, bright periods and showers later; very mild and close at first, temperature falling later.
7 North Wales ... ▼ 8 N.W. England 9 N. Midlands ... 10 N.E. England	Strong south or southeast winds, backing east and falling light; cloudy or dull with occasional rain at first, fairer later; rather mild.
11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	Moderate or fresh southeast to east winds, falling light; fair periods; occasional local rain; rather mild.
13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Moderate northeast to north winds; mainly fair; occasional local rain or drizzle chiefly near east coast; average temperature.
17 N. W. Ireland 18 N. E. Ireland	As 11 - 12.
19 S. E. Ireland ▼ 20 S. W. Ireland ▼	Light variable winds becoming westerly; fair periods; occasional local rain; average temperature.

GENERAL INFERENCE.

A complex area of low pressure is to the north and west of Ireland and a secondary off the mouth of the Channel will move rapidly northeast. A belt of rain will pass northeast across England and Wales but will be followed by fairer conditions. It will be generally mild.

FURTHER OUTLOOK.

Showery, less stormy than of late.

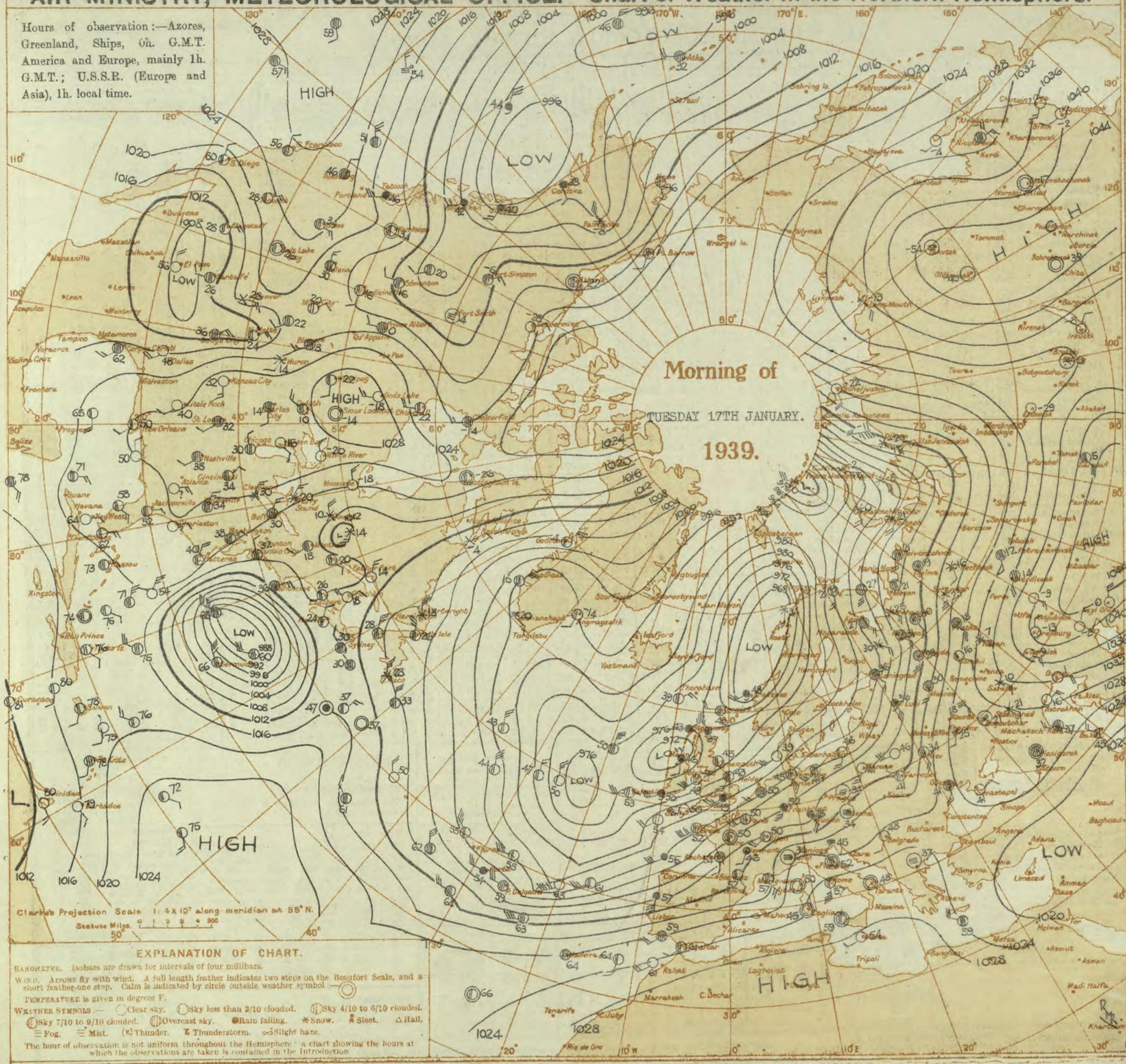
Times of Issue of Gale Warnings.

▼ South Cone hoisted at 0810 on 14th in districts 5 and 6 and parts of 7,19 and 20; at 0130 on 15th in districts 1 and 2.

Forecasts issued at 1030 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S.
Director.

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS :— Clear sky. Sky less than 3/10 clouded. Sky 4/10 to 6/10 clouded. Sky 7/10 to 9/10 clouded. Overcast sky. Rain falling. Snow. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.

The hour of observation is not uniform throughout the Hemisphere: a chart showing the hours at which the observations are taken is contained in the Introduction

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 17th January, 1939.
No. 28180

OBSERVATIONS at 1 hr. G.M.T. 17th January

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0–9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	991·7	+3·0	SW'S	5	ir.	49	85	7	6	-	-	7-8	7-8	2500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	994·5	+3·8	SW	6	c	47	85	7	5	-	-	9+	9+	1500
	Manston ...	154	993·0	+4·8	SW	5	bc	47	85	7	5	-	-	2-3	2-3	1500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	988·9	+1·8	SW'W	4	b	45	85	7	5	-	-	1	1	2500
	Mildenhall ...	19	988·2	+2·6	SSW	5	bc	45	85	7	-	2	-	0	2-3	-
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	985·8	+2·2	W3W	8	c	49	85	7	6	2	-	7-8	10	800
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	990·6	+1·6	WSW	6	bc	50	92	7	5	-	-	2-3	2-3	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	990·3	+1·6	SW'W	6	bc	49	92	8	8	-	-	2-3	2-3	2500
	Scilly (St. Mary's)	163	988·5	+1·4	SW'W	6	b	50	85	7	-	-	-	0	0	-
	Guernsey ..	175	995·0	+8	SSW	4	bc	48	85	7	-	1	8	0	2-3	-
6	Pembroke ...	142	982·8	+1·6	W'S	8	c q	50	85	7	8	-	-	9+	9+	1500
7	Holyhead ...	26	978·1	+1·4	SW	6	bc	49	85	7	2	-	-	4-6	4-6	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	983·4	+2	SSW	5	c q	43	92	7	5	2	-	4-6	10	2500
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	978·3	-2	SW	4	bc	45	75	6	5	-	-	Tr	4-6	1500
11	St Abbs Head ..	280	975·8	+2	SSW	4	ir	44	92	8	8	2	-	4-6	9+	1500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotsl.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	976·1	+8	SW'W	4	bc	47	85	7	5	-	-	4-6	4-6	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	976·9	+2·8	NE	5	pr	43	85	6	5	2	-	9	10	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	975·9	+1·6	WNW	3	r.r.	37	97	7	5	2	-	7-8	10.	1500
16	Lerwick ...	156	974·4	+3·0	W	4	c/d	40	92	8	8	2	-	4-6	7-8	800
17	Blacksod Point	18	970·3	+3·4	W	2	bc	49	92	7	9	-	-	4-6	4-6	1500
18	Malin Head ...	84	970·8	+6	S.	2	id.	46	92	6	5	-	-	7-8	7-8	2500
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	977·5	+2·0	SW'W	6.	id	50	97	6	5	-	-	10	10	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 17th January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High (25)	Amount Low 0–10 (26)	Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
London (Kew)	992·7	+6	SSW	4	c	48	85	7	5	-	-	9	9	1500	1	*
Croydon ...	993·4	-2	SSW	6	c/r	48	85	7	5	-	-	9+	9+	1500	1	*
S. Farnborough	993·4	+4	SW'S	5	c/r	48	85	6	5	-	-	9+	9+	2500	1	*
Boscombe Down	992·4	+2	SSW	4	z.	47	97	6	5	2	-	7-8	9	1500	1	*
Calshot (Sthmtn.)	993·7	-2	SSW	6	bc	48	85	7	8	3	-	2-3	2-3	2500	1	3
Lympne ...	996·2	0	SWS	5	bc	45	92	7	5	4	-	2-3	2-3	1500	1	§3
Manston ...	995·5	+1·0	SSW	4	c	46	85	7	5	-	-	7-8	7-8	1500	1	*
Shoeburyness ...	994·6	+1·4	SW	5	c	47	85	8	9	7	-	7-8	9+	1500	1	*
Felixstowe ...	993·8	+1·0	SSW	5	c	45	85	7	8	-	-	7-8	7-8	2500	1	4
Gorleston ...	991·5	+1·2	SW	4	bc	48	85	7	5	-	-	2-3	2-3	2500	1	3
Mildenhall ...	991·0	+1·4	SSW	4	b	48	75	7	5	-	-	1	1	2500	1	*
Cranwell ...	987·5	+2·0	WSW	5	b	46	85	7	5	-	-	Tr	Tr	2500	1	*
Birmingham ...	989·0	+1·6	SSW	4	ir.	46	85	8	6	-	-	9	9	800	1	*
Upper Heyford	991·1	+1·0	SW'S	3	bc	45	85	8	5	3	-	1	2-3	1500	1	*
Ross-on-Wye	989·0	+4	SW	5	c q	47	75	7	5	-	-	9+	9+	2500	1	*
Hartland Point	987·1	-6	WSW	6	bc	48	85	8	5	1	-	4-6	4-6	1500	1	4
Bristol ...	990·8	+6	S	3	b	46	85	7	5	-	-	1	1	2500	1	*
Portland Bill ...	992·1	+4	WSW	4	c	49	92	7	5	-	-	7-8	7-8	2500	1	4
Plymouth ...	990·4	-1·4	S	4	c	50	92	7	5	-	2	4-6	7-8	2500	1	3
The Lizard ...	988·4	+1·6	S'W	5	bc	50	97	8	8	-	-	4-6	4-6	2500	1	3
Scilly (St. Mary's)	985·9	-2·6	S'E	5	c	50	92	7	5	-	-	10	10	1500	1	4
Guernsey ..	991·4	-2·0	SSE	3	dd	49	97	6	5	-	-	10	10	1500	1	4
Pembroke ...	986·2	+1·0	SW'W	6	bc q	49	85	7	5	7	-	2-3	4-6	1500	1	4
Holyhead ...	982·1	+2·0	SW'S	6	c/pr	49	85	6	8	-	-	10	10	1500	1	4
Chester (Sealand)	984·3	+1·4	SSW	4	bc	50	75	8	8	-	-	2-3	2-3	2500	1	*
Manchester ...	984·5	+1·8	SW'S	4	z.	49	75	6	5	3	-	4-6	9	4000	1	*
Spurn Head ...	986·3	+1·4	SSW	5	bc	46	85	6	-	4	-	0	2-3	-	0	3
Catterick ...	982·6	+1·2	S'W	3	c/r	47	92	6	5	7	-	7-8	9+	1500	1	*
Tynemouth ...	980·5	+1·2	S	4	bc/pr	46	85	6	9	-	-	4-6	4-6	1500	1	2
St Abbs Head ..	979·2	+1·4	SSW	2	rr	44	97	7	3	2	-	7-8	10	1500	1	2
Leuchars ...	979·5	+2·0	-	0	rr	40	97	6	-	2	-	10	10	450	1	*
Renfrew (Abbotsl.)	978·8	+2·4	ENE	2	DD	44	97	5	6	-	-	10	10	450	2	*
Eskdalemuir ...	978·8	+1·0	SSW	4	rr	44	97	6	6	-	-	10	10	450	1	*
Point of Ayre...	979·1	+2·0	WSW	6	d.d.	48	92	7	5	-	-	7-8	7-8	1500	1	3
Tiree	979·9	+3·0	NE'N	4	bc	45	97	7	5	-	-	4-6	4-6	2500	0	3
Stornoway ...	983·6	+3·0	NE	5	c	42	85	8	5	2	-	7-8	10	2500	1	3
Dalwhinnie ...	981·4	+2·8	NE	3	m	38	97	4	5	-	-	10	10	1500	1	*
Aberdeen ...	980·6	+2·2	NNW	2	c	41	97	6	6	2	-	4-6	9+	800	1	2
Wick ...	981·3	+2·8	N	4	c	42	85	7	5	7	-	4-6	7-8	1500	1	2
Lerwick ...	981·6	+4·0	NW	4	bc	38	85	8	5	-	-	4-6	4-6	1500	1	*
Blacksod Point	977·9	+3·2	-	0	c	48	92	7	5	-	-	9	9	800	1	4
Malin Head ...	977·5	+6·0	N'E	1	id.	47	92	7	8	-	-	9	9	2500	1	2
Aldergrove ...	977·0	+3·6	WSW	3	c	46	97	7	5	-	-	10	10	2500	1	*
Birr Castle ...	979·1	+1·6	SW	3	ir.	47	97	7	6	-	-	10	10	800	1	*
Valentia Obsy. †	979·9	-6	SSW	3	c	47	92	6	5	-	-	9+	9+	2500	1	4
Roches Point	982·5	+4	WSW	3	bc	48	92	8	5	-	-	4-6	4-6	2500	1	5

PAST 24 HOURS.

Stations	Temperature. Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall. Day 7h–18h mm. (34)	Night 18h–7h mm. (35)	Sunshine 16th. Hrs. (36)
London (Kew)	52	45	41	0·2	11	2·3
Croydon ...	52	44	42	2	10	1·9
S. Farnborough	50	44	41	0·1	11	1·9
Boscombe Down	51	42	38	2	3	2·2
Calshot (Sthmtn.)	51	45	43	7	6	1·6
Lympne ...	50	45	41	0·3	4	3·1
Manston ...	52	45	43	0·2	3	3·0
Shoeburyness ...	52	45	41	4	1	3·0
Felixstowe ...	50	43	41	1	1	2·8
Gorleston ...	52	44	42	0·1	3	3·1
Mildenhall ...	52	42	39	2	3	2·4
Cranwell ...	51	40	37	-	0·2	3·5
Birmingham ...	47	42	39	1	2	0·3
Upper Heyford	50	42	37	4	9	*
Ross-on-Wye	50	44	40	4	9	0·1
Hartland Point	50	45	44	1	0·6	1·3
Bristol ...	50	44	38	3	0·1	0·9
Portland Bill ...	51	47	*	6	1	*
Plymouth ...	51	48	45	2	Tr	0·0
The Lizard ...	(51)	47	*	2	-	*
Scilly (St. Mary's)	51	49	*	4	0·2	0·9
Guernsey ..	54	45	43	4	1	5·2
Pembroke ...	50	48	*	Tr	0·6	2·2
Holyhead ...	51	47	45	0·1	2	0·1
Chester (Sealand)	54	45	40	1	1	2·9
Manchester ...	51	42	35	0·4	1	0·3
Spurn Head ...	49	42	*	-	Tr	2·1
Catterick ...	49	41	38	0·4	1	0·3
Tynemouth ...	50	43	39	0·4	0·2	0·0
St Abbs Head ..	48	42	*	2	2	*
Leuchars ...	46	38	31	2	3	0·0
Renfrew (Abbotsl.)	50	43	41	3	9	0·0
Eskdalemuir ...	45	43	42	13	11	0·0
Point of Ayre...	50	47	*	1	2	0·0
Tiree	47	43	40	1	0·3	0·0
Stornoway ...	47	41	*	0·2	8	0·3
Dalwhinnie ...	40	34	31	1	0·4	0·0
Aberdeen ...	44	41	33	-	1	0·7
Wick ...	46	33	*	-	1	*
Lerwick ...	46	37	*	1	0·5	2·3
Blacksod Point	51	46	*	2	6	*
Malin Head ...	49	45	*	1	1	0·7
Aldergrove ...	48	46	42	Tr	3	0·0
Birr Castle ...	48	46	43	3	1	0·0
Valentia Obsy. †	50	47	43	6	4	0·0
Roches Point	51	48	*	2	0·5	*

LONDON OBSERVATIONS

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except for rainfall which is 9h—18h.

	Height above M.S.L. in feet.	Weather Morning. (24 hrs. ended 9h.)	Weather Afternoon.	Weather Night.	Temperature Day Max. °F.	Night Min. °F.	Min. on Grass °F.	Rainfall Day. mm.	Rainfall Night. mm.	Sunshine to Sunset hrs. (Yesterday.)	Humidity 15h. G.M.T. % (Yesterday.)	Humidity 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew...	18	c m o r r c	c r.	c r. r r r c	52	45	41	0·2	11	2·3	•	•	6
Croydon	217	c p r q p r.	c b c z.	r r R c p r	52	44	42	2	10	1·9	•	•	7
Greenwich (Royal Observatory)...	149	r' b c p	c	r r c b b c	52	44	40	1	8	1·7	73	85	6
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	1·0	•	•	•
Westminster (St. James' Park) ...	27	•	•	•	53	45	41	14			69	85	•
Regents Pk. (Botanic Gardens)‡...	168	•	•	•	52	44	42	-	12	1·7	73	85	•
Camden Square	110	b c	b c	•	51	45	41	0·5	11	•	•	78	•
Kensington	80	b c	b c p	•	52	45	39	0·4	12	1·9	At 18h. 81	83	•
Hampstead Observatory	450	b c	o r	o r p	50	42	38	—	10	1·9	•	91	•

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 17th..

South Kensington. Max.	Time.	Min.	Time.
0·3	19–21h 16th	<0·3	2–5h 17th

Kew Observatory. Max.	Time.	Min.	Time.
0·2	20th 16th	<0·1	07h 17th

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 16th January. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 17th January. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
Paris	999·4	SSW	3	c	54	1001·3	SSW	2	c	48	57	46	Tr	2
Brussels	996·9	SW	5	b	50	1000·5	SSW	4	bc	45	57	43	3	Tr
Berlin	999·4	SSW	6	c	52	999·5	SSW	4	c jp	48	52	45	0·5	2
Zürich						1013·1	S	1	c	43		41		15
Rome						1022·9	SE	7	c	55	*	*		-

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	<1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	> 75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

		Objects not visible at
0	Dense fog	55 yards.
1	Thick fog	220 ,,
2	Fog	550 ,,
3	Moderate fog	1,100 ,,
4	Mist or haze	1¼ miles.
5	Poor visibility	2½ ,,
6	Moderate ,,	6½ ,,
7	Good ,,	12½ ,,
8	Very good ,,	31 ,,
9	Excellent ,,	beyond 31m.

COLUMN 30.—Code for State of Sea.

0	Calm.	5	Very rough.
1	Smooth..	6	High.
2	Slight.	7	Very high.
3	Moderate.	8	Precipitous.
4	Rough.	9	Confused.

TERMS OF SUBSCRIPTION. Single Copies, 1d. each: by post 1½d. 2/6 per month; 6/6 per quarter; 25/- per year.

METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY, LONDON, W.C.2.

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 18th January, 1939
No. 28181

OBSERVATIONS at 13h. G.M.T. 17th January

Division	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	988.4	-38	SE'E	2	dodo	49	97	5	5	-	-	10	10	1500
	Croydon	989.8	-34	SSE	4	dd	50	97	4	6	2	-	9	10	450
	S. Farnborough	988.1	-38	SE'S	3	dr	49	97	5	5	-	-	10	10	450
	Boscombe Down	986.8	-42	S'E	5	dodo	50	97	5	6	2	-	9	10	220
	Calshot (Sthmtn.)	989.0	-42	S	5	o/d	51	92	7	5	-	-	10	10	800
	Lympne	992.0	-30	SSE	3	zo	47	97	5	5	2	-	9	10	220
	Manston	991.4	-36	S'E	3	dodo	48	92	5	5	-	-	10	10	450
2	Shoeburyness	991.5	-26	SSE	3	dodo	46	97	4	-	2	-	10	10	1500
	Felixstowe	991.5	-30	SSE	4	zo	45	92	6	5	2	-	4-6	10	4000
	Gorleston	991.8	-14	S'W	4	c	47	85	6	5	-	-	9+	9+	2500
	Mildenhall	989.8	-16	SSE	3	zo	49	85	6	5	7	-	4-6	9+	4000
	Cranwell	988.2	-14	SSW	2	c	47	85	7	5	5	8	2-3	10	1500
3	Birmingham	986.8	-20	SE	2	c/r	47	85	5	6	-	-	10	10	800
	Upper Heyford	987.6	-30	SSE	3	ido	47	97	5	6	2	-	9	10	450
4	Ross-on-Wye	985.0	-36	SE	3	ro	48	92	6	6	-	-	10	10	1500
5	Hartland Point	981.1	-38	SW	6	c	53	92	7	8	2	-	4-6	9+	800
	Bristol	985.6	-38	SE'S	3	dr	50	97	6	6	2	-	9	10	800
	Portland Bill	986.7	-30	SSW	4	rr	50	92	7	5	-	-	10	10	800
	Plymouth	984.8	-22	SSW	4	zo	52	97	6	6	2	-	9	10	450
	The Lizard	984.2	+12	SW'S	5	c	53	97	7	8	6	-	7-8	9+	1500
	Scilly (St. Mary's)	981.4	-14	SSW	5	c	53	92	6	5	4	3	4-6	7-8	1500
	Guernsey	987.9	-20	S	4	c/d	54	97	7	5	-	-	9+	9+	2500
6	Pembroke	980.9	-40	SSE	5	dd	48	97	6	5	-	-	10	10	800
7	Holyhead	982.4	-8	SE	3	c	47	85	7	5	9	-	4-6	10	4000
	Chester (Sealand)	985.2	+12	SE	2	zo	48	75	6	5	2	-	9	10	3700
8	Manchester	985.3	-10	S'W	2	zo	48	75	6	5	7	-	2-3	10	3700
10	Spurn Head	987.7	0	SSW	4	c	47	85	6	5	-	-	10	10	2500
	Catterick	985.9	+10	SSW	3	zo	48	75	[illegible]	6	2	-	7-8	10	1500
	Tynemouth	984.5	+12	SW	4	c	50	75	6	2	3	-	4-6	7-8	1500
11	St. Abbs Head	984.1	+20	NW	1	F	44	97	1	-	-	-	10	10	<150
	Leuchars	985.1	+24	NNE	3	iro	42	92	7	5	2	-	4-6	9+	800
12	Renfrew (Abbots I.)	984.5	+22	ENE	3	zo	45	92	6	5	2	-	9+	10	1500
	Eskdalemuir	983.8	+22	SW	3	dodo	45	97	6	5	2	-	7-8	9+	450
	Point of Ayre	983.1	+18	SW'W	3	c	49	85	7	5	-	-	9+	9+	1500
13A	Tiree	984.1	+14	NE'N	4	bc	45	85	8	5	4	-	2-3	2-3	2500
13B	Stornoway														
15	Dalwhinnie	x	+20	NE	4	c	37	92	7	5	-	-	10	10	1500
	Aberdeen	986.3	+22	NNE	3	c	43	85	7	6	7	-	2-3	9+	800
	Wick	988.4	+30	NNE	4	bc	43	65	8	8	4	-	2-3	4-6	1500
16	Lerwick	989.1	+36	N	4	c	40	75	8	5	3	-	4-6	7-8	1500
17	Blacksod Point	987.4	-10	NE	3	c	47	97	8	8	-	5	4-6	7-8	1500
18	Malin Head	981.9	+8	NNE	3	ido	47	97	6	5	-	.	9	9	2300
	Aldergrove	981.4	+10	SE'S	1	c/d	47	97	6	5	-	-	9+	9+	800
19	Birr Castle	979.8	-8	ESE	1	c	47	92	7	5	-	-	10	10	1500
20	Valentia Obsy. †	975.2	-34	ENE	5	pr	46	85	8	6	2	-	9	10	1500
	Roches Point	976.3	-38	SE	3	rr	50	97	7	6	2	-	4-6	10	800

OBSERVATIONS at 18h. G.M.T. 17th January — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.–13h. 17th (37)	Weather 13h.–18h. 17th (38)	Weather 18h. 17th to 1h. 18th (39)	Weather 1h.–7h. 18th (40)
London (Kew)	987.0	-4	S	2	GG	52	97	5	6	2	-	7-8	10	1500	1	*	ccdomo	cdodromo	cromobcc	crroproc
Croydon	987.9	-4	SSW	4	rr	53	97	6	6	2	-	7-8	10	1500	1	*	cdodm	dddoiRrr	cmoRpro	crorrdo
S. Farnborough	986.7	-4	SW'S	4	iro	53	92	6	5	2	-	9	10	1500	2	*	irocdomo	crodoiro	cirobc	ciRido
Boscombe Down	986.3	0	SW'S	4	ido	52	92	6	6	2	-	9	10	800	1	*	cmodddod	cdodoidomo	cidprobc	cRRorr
Calshot (Sthmtn.)	988.3	0	SSW	6	bc/pr	50	92	7	5	1	-	4-6	4-6	800	1	3	bcoddodom	cPRmo	bcb	bcprpro
Lympne	989.7	-14	S'W	5	iro	51	97	5	6	2	-	9+	10	800	1	§3	cifdoro	Fdoirq	frorbcc	bcc
Manston	988.7	-16	S'W	4	iro	53	92	6	5	2	-	7-8	10	1500	1	*	bcomdd	omdoroc	crorocbc	bcproc
Shoeburyness	988.3	-10	SSW	4	roro	51	92	6	6	2	-	9+	10	1500	1	*	ccddomo	ddodoroc	crocribc	bccpr
Felixstowe	988.6	-8	SSE	4	zo	46	97	5	5	2	-	9	10	450	1	3	bccmo	orrroromo	cmorrror	oc
Gorleston	988.2	-14	SSW	4	c/r	48	97	3	6	-	-	10	10	1500	1	3	bccq	corrof	ofrrroc	bccpro
Mildenhall	985.7	-22	S	4	zo	50	92	6	5	-	-	10	10	1500	1	*	bbcmo	rododocmo	ciromo	cidbcir
Cranwell	985.0	-16	SSE	3	o/d	47	97	4	5	-	-	10	10	220	1	*	b,c	ccrododr	mombmcro	crorrm
Birmingham	984.1	-8	S	3	bc	50	92	6	5	-	-	4-6	4-6	1500	1	*	ciro	rcro	bcor	orR
Upper Heyford	986.0	-2	S	3	c	51	92	7	5	7	1	7-8	9	1500	1	*	ccmodo	cdodoroq	prolbc	ccrrcro
Ross-on-Wye	983.4	-8	S	4	bc	52	85	7	6	-	-	2-3	2-3	1500	1	*	cbccodo	rogcbprb	lbcoir	Roro
Hartland Point	980.7	-4	SW	6	c	52	85	7	8	2	-	4-6	9+	800	1	4	bcodoir	cp	c	crr
Bristol	984.5	0	SSW	3	bc	52	85	7	8	-	-	4-6	4-6	1500	1	*	bccdr	cdrcdoroc	bccprc	cRroroq
Portland Bill	986.0	+2	SW	4	c	50	92	7	5	-	-	7-8	7-8	2500	1	4	oR	oRc	orr	oR
Plymouth	983.7	-2	SW'S	4	pr	51	92	6	9	7	-	9+	10	450	1	3	cproddm	cpromo	cPRir	ircorr
The Lizard	981.7	-16	S'W	6	c	52	92	6	8	2	-	7-8	10	1500	1	4	bcidc	cprc	tlrrc	cprbc
Scilly (St. Mary's)	978.9	-10	SSW	6	cjp	52	85	6	5	7	-	7-8	10	1500	1	4	oridc	c	cpocp	prrciro
Guernsey	987.7	+2	S'W	3	bc	52	85	7	5	3	-	2-3	4-6	2500	1	4	oddid	cidbc	bccido	oprid
Pembroke	979.7	-2	SSW	5	bc	50	97	7	8	7	-	4-6	4-6	1500	1	3	orrqm	cqmphrb	cq	cirodd
Holyhead	980.3	-2	ESE	3	rr	46	97	6	6	2	-	7-8	10	1500	1	2	bcc⊕	RRrrc	iRrorc	roRRc
Chester (Sealand)	982.7	-10	E	2	iro	47	92	4	-	2	-	10	10	800	1	*	bcczo	crrm	cRRm	crrmmo
Manchester	983.5	-10	E	2	rf	47	85	3	6	2	-	7-8	10	800	2	*	cbcczo	crRRrorf	cRfrrro	crcmo
Spurn Head	986.3	-6	E'S	3	df	43	97	3	5	-	-	10	10	450	2	3	bcqc	crrfd	ffirc	circ
Catterick	985.9	+6	S'E	2	rr	43	97	5	6	-	-	10	10	1500	1	*	cirocmo	cmorr	morrcmo	morrcm
Tynemouth	985.3	+2	SW	3	m	45	85	4	5	-	-	10	10	1500	1	2	bccpc	com	ororom	prrp
St. Abbs Head	986.0	+4	NE	5	iro	43	97	6	5	2	-	7-8	10	800	1	4	iFe	moirc	crroq	frrqo
Leuchars	987.7	+14	NNE	3	c	43	85	7	5	7	-	7-8	10	1500	1	*	crorociro	ciroc	idoirororo	crrroro
Renfrew (Abbots I.)	986.9	+14	ENE	4	iro	43	92	6	5	-	-	10	10	1500	1	*	rofddomo	moidoiro	ciro	cmoiro
Eskdalemuir	984.2	+8	NE'E	4	dodo	43	97	6	-	2	-	10	10	450	1	*	orcdd	ododomo	dodorroc	c
Point of Ayre	983.3	+6	SE	4	rr	43	92	6	-	2	-	10	10	800	1	3	dodoc	crr	rroro	cprc
Tiree	985.8	+8	NE	5	c	44	85	8	5	-	-	9	9	2500	0	4	bc	bc	c	cbc
Stornoway	992.3	+14	ENE	5	c	40	75	8	8	-	-	7-8	7-8	2500	1	3	c	cPR	cbc	bc
Dalwhinnie	989.6	+8	NE	4	c	34	92	5	4	4	-	4-6	9	1500	0	*	c	c	*	c
Aberdeen	990.1	+14	NNE	4	c/pr	42	85	7	6	-	-	7-8	7-8	800	1	2	cmodo	ccpro	cprobcb	bbcc
Wick	991.1	+10	NNE	6	pr	42	75	7	8	7	-	4-6	7-8	800	1	3	cprbc	cqpr	cprcy	cprc
Lerwick	993.7	+14	N	4	bc	37	85	8	5	-	-	4-6	4-6	1500	1	*	c	cbc	cprobc	bcy
Blacksod Point	979.4	+2	E	3	c	48	97	8	5	-	-	9+	9+	800	1	3	c	idc	prcq	cq
Malin Head	982.7	+16	E	5	c	45	85	6	8	-	-	9	9	2500	1	4	czozc	cidoc	cidocqc	c
Aldergrove	981.1	+2	ESE	3	iro	46	92	6	5	-	-	10	10	1500	1	*	irodddod	idiromo	irororomo	irororm
Birr Castle	977.6	-8	ESE	2	c/pr	43	97	7	6	2	-	7-8	9	800	1	*	ciroc	cpr	cprc	c
Valentia Obsy. †	973.8	-2	ENE	3	c	49	85	8	5	-	-	9+	9+	1800	1	3	ciRiroprc	cprc	croidc	cidc
Roches Point	975.5	-6	S	3	rr	48	97	7	6	2	-	7-5	10	800	1	4	bccrr	ircrr	circ	cbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/so, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
so/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. ro, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
⊕, Solar halo. ⊕ lunar halo. Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu and Sc.
8 Large Cu (or Cb) and Sc.
9 Large Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:— Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As: Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. „ wet.
2 .. „ flooded.
3 .. „ frozen hard and dry.
4 .. „ partly covered with snow or hail.
5 .. „ covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. „ covered with snow, less than 6 ins., deep but ground not frozen.
8 .. „ covered with snow, less than 6 ins., but ground frozen
9 .. „ covered with snow greater than 6 ins. deep.

NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

† Sea disturbance reported from Dungeness.

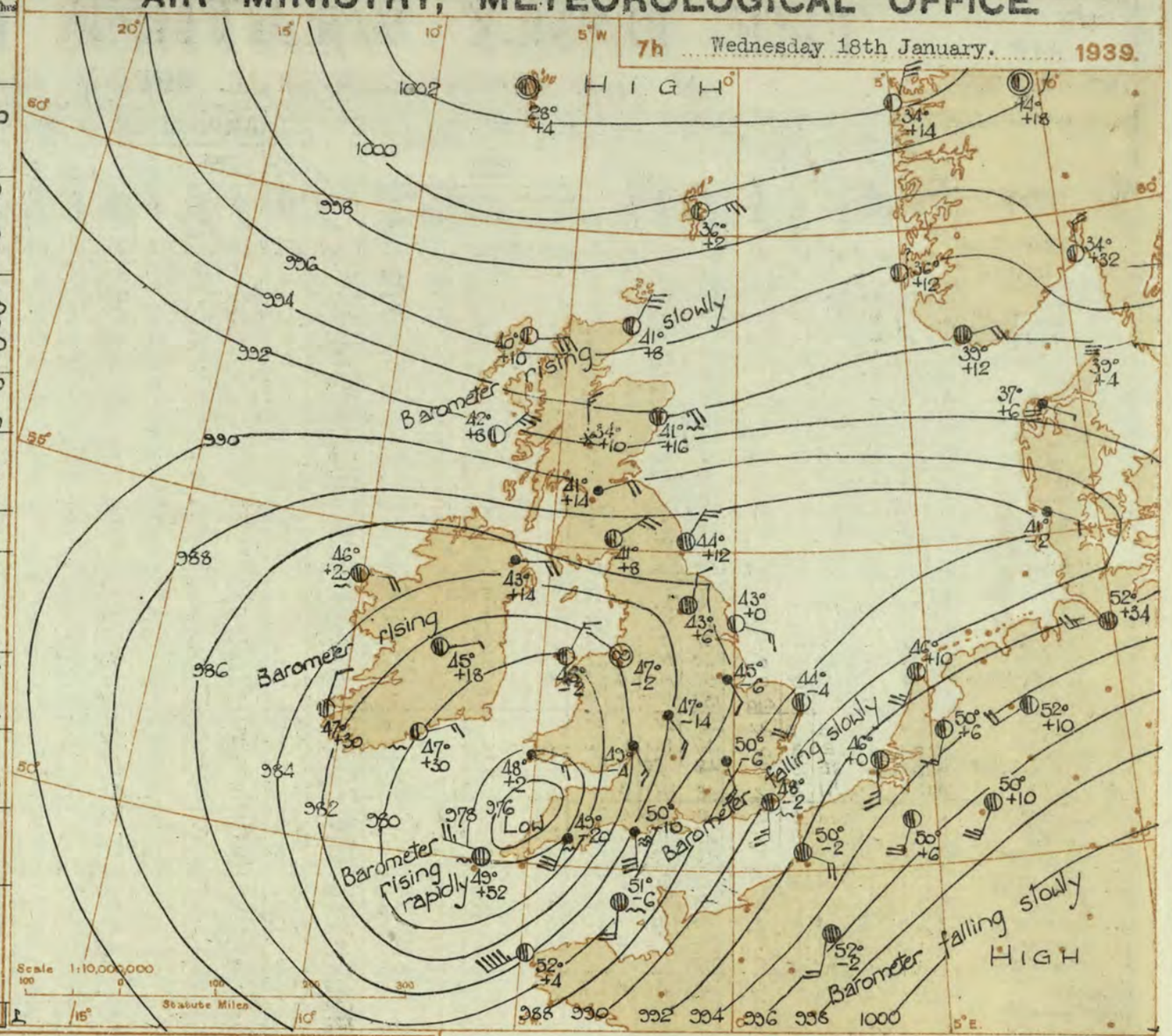
REPORTS from HEALTH RESORTS for 17th January 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F.) Min. 9h.16th to 9h.17th	Temperature. (°F.) Max. 9h.—17h. 17th	Rainfall. (mm.) Night. 17h.16th to 9h.17th	Rainfall. (mm.) Day. 9h.—17h. 17th	Sunshine (hrs) Sunrise to Sunset. 17th
1	Tunbridge W.	codo	odo	43	54	6	2	0.0
	Bournemouth	drrd	oro	44	53	12	3	0.0
	Ventnor ...	ropf	opou	44	51	7	2	0.0
	Southsea ...	cor	o.roc	45	54	16	3	0.0
	Bognor Regis	oir	oir	45	45	3	1	0.0
	Littlehampton	ccr.c	cor	43	51	2	1	0.0
	Worthing ...	or.	or.	46	41	2	1	0.0
	Brighton ...	cpc	cd	44	51	3	0.5	0.0
	Eastbourne† ...	odo	od.	47	52	3	0.4	0.0
	Hastings† ...	codo	odpo	46	52	2	0.5	0.0
	Folkestone ...	odo	oro	46	51	4	1	0.0
	Dover ...	bccod	oro	47	51	4	1	0.0
	Deal	odd	ddo	46	52	4	2	0.0
	Ramsgate ...	co	roc	46	51	3	1	0.0
	Margate ...	cd.	cd.	46	53	3	0.5	0.0
2	Southend ...	pcor	odo	44	49	1	0.5	0.0
	Clacton-on-Sea	bcco	oirdm	43	45	1	1	0.0
	Dovercourt ...	rbc	roc	43	47	2	1	0.0
	Lowestoft ...	bcc	ororf	43	47	3	2	0.9
	Skegness ...	b	bcorr	41	47	2	3	2.3
	Mablethorpe...	b	orm.	41	49	1	2	3.0
	Cleethorpes ...	bc	cr	42	51	-	5	3.1
3	Leamington S.	o	odo	44	51	9	0.3	0.0
4	Cheltenham†	cir.	circ	44	53	2	1	0.1
5	Bath	cd	drc	46	54	0.5	1	0.0
	Weymouth ...	dm	c	46	52	4	1	0.0
	Jersey ...	rc	cpc	47	54	3	Trace	0.0
	Torquay ...	odiDo	occq	45	54	4	3	0.0
	Falmouth	ofrmd	c	46	55	1	3	0.5
	Penzance ...	orqr	cqbcc	45	54	1	3	0.6
	St. Ives ...							
	Bude... ...	cp	bcp	45	56	0.3	0.5	1.1
	Ilfracombe ...	corod	codo	42	53	8	1	0.7
6	Aberystwyth	prcpr	rcpr	47	52	7	2	0.1
7	Llandudno ...	bcc	r.rc	48	51	1	4	0.7
	Colwyn Bay...	cbcco	po	48	49	2	1	0.8
	Rhyl	bcc	corrc	47	49	1	6	0.3
8	Wallasey ...	bcc	crro	46	50	0.3	7	0.0
	Southport ...	coz	pz.Rr	44	50	2	6	0.1
	Blackpool ...	c	omRor	43	49	2	3	0.3
	Morecambe ...	obc	or.	43	49	3	3	0.1
9	Ilkley... ...	rcbcp	cpor	43	48	3	3	1.5
	Harrogate ...	bc	coRr	42	48	1	3	0.9
10	Berwick-on-T.	cir	m.o	43	47	3	2	0.0
11	Dunbar ...	cir	cpir	43	50	3	3	0.0
12	Troon... ...	orror	oco	45	46	3	1	0.0
	Douglas ...	cir	ciR	46	48	2	4	0.3

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h Wednesday 18th January. 1939.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	Forecasts for the 24 hours commencing 12 noon, G.M.T. 18th January, 1939.
1 S.E. England ▼ 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England ▼	Fresh or strong south or southwest winds, moderating slowly, mainly cloudy or dull with periods of rain but becoming fairer; mild.
6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England	Moderate east or northeast winds; mainly cloudy or dull with rain at times; rather mild.
11 S.E. Scotland ▲ 12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. ▲ / B. N.W. Scotland. ▲ 14 Mid Scotland 15 N. E. Scotland ▲ 16 Orkney and Shetland ▲	Fresh or strong east or northeast winds, a gale in exposed places; cloudy, dull at times with periods of rain and with sleet on high ground; average temperature.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Fresh or strong northerly winds becoming northwest and moderating; mainly cloudy with occasional rain; average temperature.

GENERAL INFERENCE

A complex depression is centred over Cornwall. There will be rain at times in all districts. It will be mild in the South, but in the North and West Temperatures will be about the seasonal average.

FURTHER OUTLOOK.

A short fair interval in South and West.

Times of issue of Gale Warnings

▼ South cone hoisted at 0810 on 14th in district 5 and at 0130 on 15th in district 1.

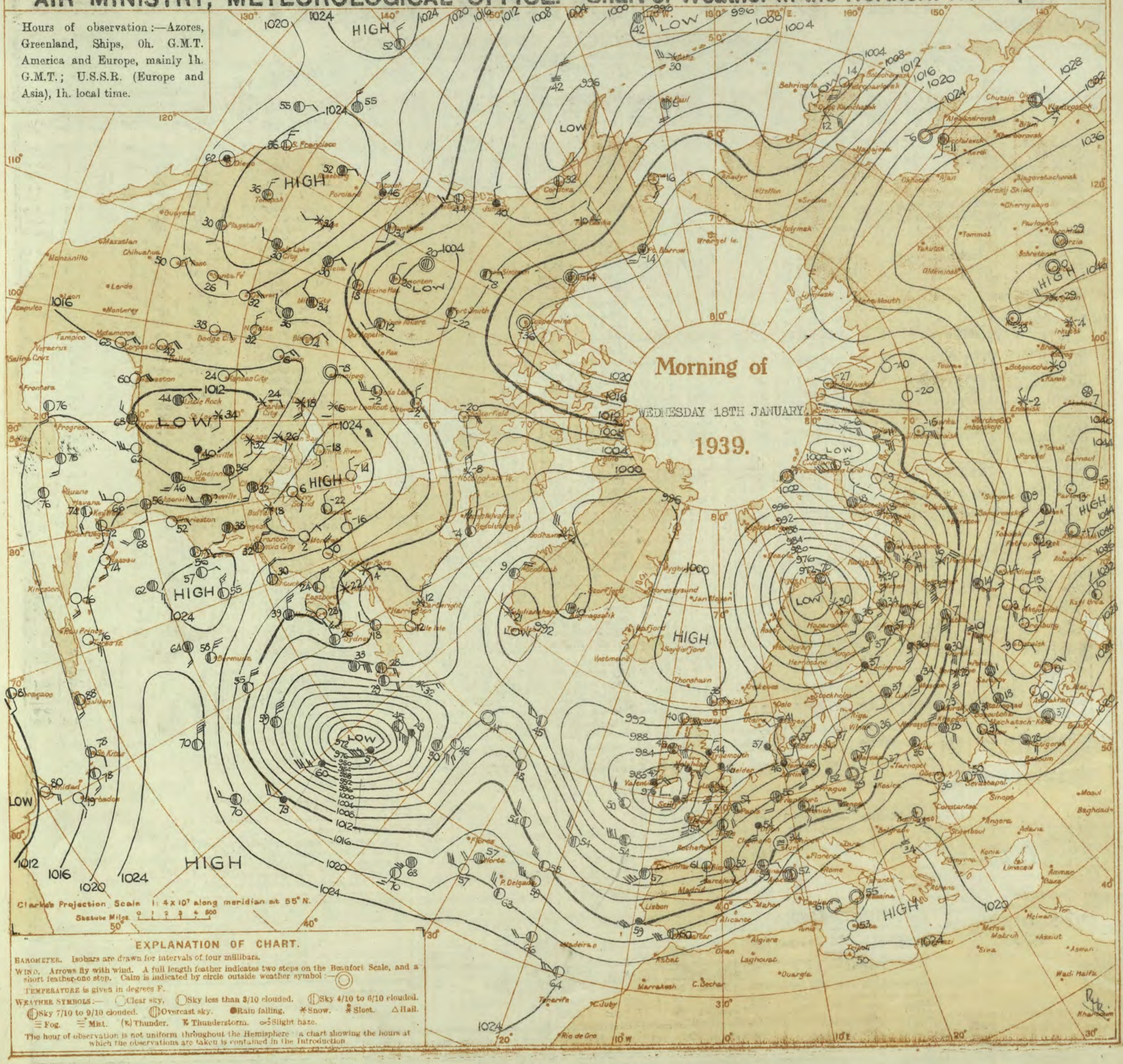
▲ North Cone hoisted at 0901 on 18th in districts 11, 13A, 13B, 15 and 16.

Forecasts issued at 1000 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S.
Director.

H.M. Stationery Office Press, Kingsway W.C.2.

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS :— Clear sky. Sky less than 3/10 clouded. Sky 4/10 to 6/10 clouded. Sky 7/10 to 9/10 clouded. Overcast sky. Rain falling. Snow. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.

The hour of observation is not uniform throughout the Hemisphere : a chart showing the hours at which the observations are taken is contained in the Introduction

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 18th January, 1939
No. 28181

OBSERVATIONS at 1 hr. G.M.T. 18th January

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	988·6	0	SW	5	bc/pr	51	85	7	5	-	-	4-6	4-6	1500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	991·2	+6	SSW	5	bc	48	92	7	-	7	-	0	4-6	-
	Manston ...	154	989·9	+4	SSW	4	bc	51	85	7	-	7	-	0	4-6	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	988·4	+10	SSW	4	c	46	92	6	5	-	-	7-8	7-8	2500
	Mildenhall ...	19	987·3	+10	S	3	id.	51	85	6	5	2	-	4-6	9	2500
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	978·5	-8	S	5	c	50	92	8	8	6	-	7-8	7-8	1500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	984·5	-12	S	6	rr	50	92	7	5	-	-	10	10	800
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	978·2	-20	SWS	6	c	50	97	7	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	975·5	-8	SSW	5	pr	51	85	6	8	1	-	7-8	10	1500
	Guernsey ..	175	986·0	-10	S'E	5	c/d	52	85	7	5	-	-	10	10	2500
6	Pembroke ...	142	978·5	-2	S	4	cq	49	97	7	8	-	-	7-8	7-8	1500
7	Holyhead ...	26	980·1	+2	ESE	4	r.r.	47	97	7	5	2	-	7-8	10	450
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	985·3	+4	WSW	2	ir	46	97	5	5	-	-	7-8	7-8	800
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	985·7	+4	NE	3	rr	44	92	6	-	2	-	10	10	1500
11	St Abbs Head ..	280	987·3	+10	NE	5	rr	43	97	7	3	-	-	10	10	1500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotsl.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	982·6	-4	E'S	3	r.r.	45	85	6	-	2	-	10	10	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	994·4	+10	ENE	6	bc	40	75	7	5	-	-	4-6	4-6	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	994·7	+10	NE	5	c	42	55	8	8	7	-	4-6	7-8	1500
16	Lerwick ...	156	997·9	+20	ENE	5	bc	38	65	8	5	-	-	4-6	4-6	1500
17	Blacksod Point	18	982·1	+8	NE	5	bc	45	92	7	9	-	-	4-6	4-6	1500
18	Malin Head ...	84	984·8	+10	E	7	c/r	45	85	6	6	2	-	7-8	10	1500
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	976·7	+10	NE'E	4	ir	47	97	7	5	-	-	10	10	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 18th January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	986·5	-6	S	4	c/pr	50	85	6	5	2	-	7-8	10	1500	1	*
Croydon ...	987·5	-6	S'E	4	id.	50	92	7	5	-	-	9+	9+	1500	1	*
S. Farnborough	985·7	-6	S	4	d.d.	49	92	5	5	-	-	10	10	1500	1	*
Boscombe Down	983·5	-2	S	5	rr	48	97	7	-	2	-	10	10	450	1	*
Calshot (Sthmtn.)	986·1	-8	S	6	id.	50	85	7	5	7	-	9	9+	1500	1	3
Lympne ...	990·4	-2	S	5	c	48	85	7	5	-	-	9+	9+	5700	1	4
Manston ...	989·4	-2	S	4	c	50	85	7	5	-	-	9+	9+	1500	1	*
Shoeburyness ...	988·9	-2	S'E	3	c/pr	48	85	7	8	7	-	7-8	7-8	2500	1	*
Felixstowe ...	989·0	-2	S	4	c	46	92	7	5	-	-	9+	9+	4000	1	3
Gorleston ...	988·6	-4	SSW	4	c/pr	44	92	6	8	-	-	9	9	2500	1	3
Mildenhall ...	986·6	-4	SSE	4	id	49	92	7	5	-	-	7-8	7-8	1500	1	*
Cranwell ...	985·3	-6	SSE	2	r.r.	45	97	5	5	-	-	10	10	450	1	*
Birmingham ...	983·2	-4	SSE	3	ir.	47	97	7	6	-	-	10	10	800	1	*
Upper Heyford	984·8	-4	S	3	c/r	48	92	6	5	1	-	9	10	1500	1	*
Ross-on-Wye	982·0	-4	SSE	3	ir.	49	92	6	6	-	-	10	10	1500	1	*
Hartland Point	975·4	-24	S	4	rr	49	92	7	6	2	-	9+	10	800	1	3
Bristol ...	981·8	-6	S	5	ir.	50	85	7	5	-	-	9+	9+	1500	1	*
Portland Bill ...	982·4	-10	S	6	rr	50	92	7	5	-	-	10	10	1500	1	6
Plymouth ...	977·5	-20	SSW	6	ir.	49	97	6	6	2	-	9+	10	450	1	4
The Lizard ...	977·6	+24	W'S	5	bc	49	97	7	8	-	-	4-6	4-6	1500	1	4
Scilly (St. Mary's)	978·1	+52	WNW	5	c/r	49	97	6	8	7	-	7-8	10	1500	1	4
Guernsey ..	984·3	-6	S	4	c/d	51	85	7	5	-	-	10	10	1500	1	4
Pembroke ...	978·2	+2	E'S	3	d.d.	48	97	6	8	-	-	10	10	1500	1	2
Holyhead ...	980·8	+2	NEN	3	c	46	92	8	9	8	-	7-8	9+	1500	1	2
Chester (Sealand)	982·5	-2	-	0	z.	47	92	5	5	-	-	7-8	7-8	1500	1	*
Manchester ...	983·2	0	NE	3	c/r	49	85	5	5	-	-	9	9	2500	1	*
Spurn Head ...	986·1	0	SE	3	bc	43	97	6	5	-	-	4-6	4-6	1500	1	2
Catterick ...	986·2	+6	NNE	2	m/r	43	97	4	5	-	-	10	10	450	1	*
Tynemouth ...	987·2	+12	NE	5	c	44	92	7	-	2	-	10	10	1500	1	3
St Abbs Head ..	989·4	+20	NE	6	rr	41	97	7	3	-	-	10	10	1500	2	4
Leuchars ...	991·8	+14	NE	3	r.r.	41	92	7	5	-	-	10	10	800	1	*
Renfrew (Abbotsl.)	989·7	+14	ENE	4	ir.	41	92	7	5	-	-	9+	9+	1500	1	*
Eskdalemuir ...	987·9	+8	NEE	5	c	41	85	8	5	-	-	10	10	1500	1	*
Point of Ayre...	984·6	+10	E	5	c	44	85	7	8	2	-	7-8	10	1500	1	3
Tiree	990·0	+8	NEE	5	bc	42	85	8	5	4	-	4-6	4-6	2500	0	*
Stornoway ...	996·7	+10	E	6	bc	40	75	8	5	-	-	4-6	4-6	2500	1	3
Dalwhinnie ...	994·3	+10	N	3	s	34	85	5	8	4	-	7-8	9+	1500	1	*
Aberdeen ...	994·8	+16	ENE	5	c	41	75	7	5	-	-	9	9	1500	1	4
Wick ...	996·7	+8	NE	6	c	41	65	8	8	7	-	7-8	9	1500	1	2
Lerwick ...	999·6	+2	ENE	5	bc	36	55	8	5	3	-	4-6	4-6	1500	1	*
Blacksod Point	985·6	+20	E	4	c	46	92	7	-	7	-	0	9	-	1	4
Malin Head ...	987·9	+32	E	5	c	44	85	7	8	-	-	7-8	7-8	4000	0	4
Aldergrove ...	985·1	+14	E	4	r.r.	43	92	6	6	2	-	9+	10	800	1	*
Birr Castle ...	981·7	+18	ENE	1	c	45	97	7	5	-	-	10	10	1500	1	*
Valentia Obsy. †	982·6	+30	NNE	2	c	47	92	6	5	-	-	10	10	1500	1	3
Roches Point	980·2	+30	ENE	3	bc	47	97	8	5	-	-	4-6	4-6	2500	1	5

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Temperature Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 17th Hrs. (36)
London (Kew)	53	50	46	3	2	0·0
Croydon ...	54	49	47	6	4	0·0
S. Farnborough	53	49	46	3	3	0·0
Boscombe Down	52	47	44	2	7	0·0
Calshot (Sthmtn.)	53	49	47	2	1	0·0
Lympne ...	51	48	45	2	1	0·0
Manston ...	53	49	45	0·6	1	0·0
Shoeburyness ...	52	47	43	0·3	2	0·0
Felixstowe ...	46	43	42	1	2	0·0
Gorleston ...	48	43	41	3	7	0·9
Mildenhall ...	51	47	43	0·4	2	0·0
Cranwell ...	48	42	35	2	3	2·0
Birmingham ...	50	45	44	3	13	0·0
Upper Heyford	51	46	43	0·6	3	*
Ross-on-Wye	53	47	44	1	13	0·0
Hartland Point	54	48	46	3	5	0·1
Bristol ...	53	48	45	1	5	0·0
Portland Bill ...	51	45	*	1	3	*
Plymouth ...	52	48	46	2	14	0·0
The Lizard ...	53	47	*	2	10	1·9
Scilly (St. Mary's)	53	49	*	3	5	2·8
Guernsey ..	55	50	47	1	0·2	0·1
Pembroke ...	51	47	*	6	5	0·0
Holyhead ...	49	45	44	8	16	0·0
Chester (Sealand)	50	46	41	5	8	0·0
Manchester ...	50	45	40	10	8	0·4
Spurn Head ...	48	42	*	7	2	3·2
Catterick ...	49	41	40	2	5	0·4
Tynemouth ...	51	43	40	0·5	9	0·0
St Abbs Head ..	45	41	*	1	14	*
Leuchars ...	43	41	39	5	8	0·0
Renfrew (Abbotsl.)	45	40	39	1	0·2	0·0
Eskdalemuir ...	46	40	39	8	4	0·0
Point of Ayre...	51	41	*	4	3	1·5
Tiree	45	41	39	-	-	4·4
Stornoway ...	43	39	*	0·4	-	1·4
Dalwhinnie ...	38	33	30	-	-	0·0
Aberdeen ...	44	41	38	0·1	0·1	0·0
Wick ...	43	40	*	Tr	Tr	*
Lerwick ...	42	35	*	-	Tr	0·5
Blacksod Point	50	44	*	0·2	Tr	*
Malin Head ...	47	42	*	0·5	Tr	0·1
Aldergrove ...	47	41	41	1	1	0·0
Birr Castle ...	47	43	37	7	1	0·0
Valentia Obsy. †	51	46	42	7	0·4	1·9
Roches Point	50	47	*	7	2	*

LONDON OBSERVATIONS

Day 7h—18h. Kew & Croydon.
9h—18h. Kensington.
9h—21h. other stations except for rainfall which is 9h—18h.

	Height above M.S.L. in feet.	Weather Morning. (24 hrs. ended 9h.)	Weather Afternoon.	Weather Night.	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day. mm.	Rainfall Night. mm.	Sunshine to Sunset hrs. (Yesterday.)	Humidity 15h. G.M.T % (Yesterday.)	Humidity 9h. G.M.T % (To-day.)	Visibility 9h.
Kew...	18	ccdm.	cdd,rm.	crm,pr.	53	50	46	3	2	0·0	.	.	6
Croydon	217	cd,dm	ddd,Rrr	cm,Rpg	54	49	47	6	4	0·0	.	.	6
Greenwich (Royal Observatory)...	149	cd.	cdd,r	rcbcir	53	49	44	2	4	0·0	97	88	5
City (Bushill Row)	—	*	*	*	*	*	*	*	*	0·0	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	55	48	45	3		*	93	87	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*	53	47	44	2	1	0·0	100	93	*
Camden Square	110	bc	o	*	53	48	44	3	2	*	*	88	*
Kensington	80	bc	bcp	*	54	50	44	3	1	0·0	At 12h. 95	90	*
Hampstead Observatory	450	or	or	or	52	47	40	1	4	0·0	*	93	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 18th

South Kensington. Max.	Time.	Min.	Time.	Kew Observatory. Max.	Time.	Min.	Time.
0·3	14-16h 17th	<0·3	2-4h. 18th	0·2	17-19h 17th	<0·1	0-7h. 18th.

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 17th January. Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 18th January. Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris	996·1	SSW	4	rr	55	996·2	SSW	4	o	52	57	50	3	0·1
Brussels						994·9	SSW	5	c	50		50		2
Berlin	1002·2	S	2	o	46	997·0	SW	3	c	52	*	45	12	4
Zurich	1010·4	SE	1	m	46						*		*	
Rome	1021·1	SSE	7	o	57	1021·5	SE	7	c	55	*	*	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16. The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18. The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	<1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	> 75
		8	39–46		

COLUMNS 34, 35. Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

		Objects not visible at
0	Dense fog	55 yards.
1	Thick fog	220 ,,
2	Fog	550 ,,
3	Moderate fog	1,100 ,,
4	Mist or haze	1¼ miles.
5	Poor visibility	2½ ,,
6	Moderate ,,	6½ ,,
7	Good ,,	12½ ,,
8	Very good ,,	31 ,,
9	Excellent ,,	beyond 31m.

COLUMN 30.—Code for State of Sea.

0	Calm.	5	Very rough.
1	Smooth..	6	High.
2	Slight.	7	Very high.
3	Moderate.	8	Precipitous.
4	Rough.	9	Confused.

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY, LONDON, W.C.2.

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. ‖ Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 19th January, 1939.
No. 28182

OBSERVATIONS at 13h. G.M.T. 18th January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Amount Low 0–10 (12)	Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	987.2	+4	S'E	4	roro	50	85	6	5	-	-	10	10	800
	Croydon	988.1	+2	S'E	5	o/d	50	92	6	5	-	-	10	10	1500
	S. Farnborough	986.2	-6	SSE	4	dd	49	97	5	6	2	-	9	10	450
	Boscombe Down	983.7	0	S	6	dd	49	97	5	5	-	-	10	10	450
	Calshot (Sthmtn.)	986.1	0	S'E	6	roro	49	92	6	6	2	-	10	10	800
	Lympne	990.9	-6	S'E	5	c/pr	50	85	7	5	3	-	7-8	9	4000
	Manston	990.3	-6	S	5	iro	52	75	7	5	7	6	4-6	9+	4000
2	Shoeburyness	990.0	+2	S'W	5	c	50	85	7	9	7	-	7-8	9+	2500
	Felixstowe	990.5	+2	S'E	5	c/pr	46	92	7	5	-	-	9+	9+	1500
	Gorleston	990.3	+2	SSW	5	bc	51	75	6	5	3	-	2-3	4-6	2500
	Mildenhall	988.0	0	SSE	4	iro	51	75	7	5	7	-	4-6	9+	1500
	Cranwell	987.0	+2	SSE	4	zo	50	92	6	5	-	-	4-6	9+	800
3	Birmingham	984.0	0	ESE	3	rr	48	92	5	6	-	-	10	10	800
	Upper Heyford	985.2	-4	SSE	4	iro	48	92	6	5	-	-	10	10	450
4	Ross-on-Wye	981.9	-4	SE'S	3	ido	50	92	6	6	-	-	10	10	800
	Hartland Point	983.2	+42	NW	2	f+	48	97	2	-	-	-	10	10	<150
	Bristol	981.7	+4	S	4	ido	50	85	6	5	2	-	7-8	10	800
	Portland Bill	983.9	+14	WSW	6	c	50	92	7	5	7	-	7-8	10	2500
	Plymouth	984.7	+34	W'S	3	pr	50	97	6	9	-	-	9+	9+	450
	The Lizard	987.6	+30	WNW	5	c	51	97	7	8	6	-	7-8	7-8	2500
	Scilly (St. Mary's)	987.1	+38	WNW	5	c	50	97	6	8	7	-	4-6	10	1500
	Guernsey	987.2	+18	SW	4	c/r	50	92	7	5	2	-	9	10	1500
6	Pembroke	983.6	+20	NNE	4	c	50	92	7	5	6	-	4-6	7-8	2500
7	Holyhead	984.9	+18	NE	5	c	46	92	7	7	9	-	4-6	9+	4000
	Chester (Sealand)	984.9	+10	NE'N	2	ir	47	97	4	-	2	-	10	10	800
8	Manchester	985.4	+10	NE	3	rf	47	92	3	5	2	-	4-6	10	1500
10	Spurn Head	987.8	+10	SE'S	4	c	45	92	6	5	9	2	2-3	9+	2500
	Catterick	988.3	+10	NE'N	2	rf	43	97	3	-	-	-	10	10	<150
	Tynemouth	989.8	+12	ENE	6	c/r	44	92	5	6	-	-	10	10	800
11	St. Abbs Head	993.2	+20	NE	8	rr	41	97	7	3	2	-	7-8	10	1500
	Leuchars	995.0	+10	NNE	6	c	42	75	8	5	7	-	7-8	10	2500
12	Renfrew (Abbots I.)	994.4	+18	ENE	5	c/d	41	85	8	5	3	-	7-8	9+	1500
	Eskdalemuir	990.1	+4	NE'N	7	c	40	85	7	5	2	-	4-6	7-8	800
	Point of Ayre	988.4	+14	E'N	6	c	45	85	8	8	7	-	2-3	7-8	1500
13A	Tiree														
13B	Stornoway	1000.1	+8	NE	6	bc	39	65	8	5	-	-	4-6	4-6	2500
15	Dalwhinnie	998.0	+2	NE	5	c	35	75	7	4	5	1	1	7-8	2500
	Aberdeen	997.8	+6	ENE	5	c	42	75	7	1	-	-	9	9	1500
	Wick	1000.2	+8	ENE	7	cq	41	75	8	3	7	9	7-8	9	1500
16	Lerwick	1001.6	+4	NE	6	bc	39	65	8	7	-	-	2-3	2-3	2500
17	Blacksod Point	991.7	+20	NE	4	c	45	92	7	-	7	-	0	10	—
18	Malin Head	992.9	+18	E'N	5	c	43	85	7	8	-	-	9+	9+	2500
	Aldergrove	990.2	+24	E	4	c	43	85	8	5	-	-	9+	9+	1500
19	Birr Castle	989.1	+24	ENE	1	id	45	97	7	5	-	-	10	10	1500
20	Valentia Obsy. †	991.0	+36	NNW	4	c	47	92	7	5	-	-	9+	9+	800
	Roches Point	988.1	+38	N'W	4	f	49	92	7	3	-	3	4-6	7-8	800

OBSERVATIONS at 18h. G.M.T. 18th January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Amount Low 0–10 (26)	Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	989.8	+20	S	3	zo	50	85	6	5	-	-	10	10	1500	1	*
Croydon	989.6	+14	S'W	3	ido	49	97	6	5	-	-	10	10	1500	1	*
S. Farnborough	988.8	+24	SSW	3	iro	49	92	6	5	2	-	9	10	800	2	*
Boscombe Down	987.9	+26	SW	3	c/ro	49	92	6	6	2	-	9	10	1500	1	*
Calshot (Sthmtn.)	989.6	+18	SW	4	c	49	92	7	5	-	-	9	9	450	1	3
Lympne	992.1	+14	S'W	4	iro	48	97	6	6	2	-	9+	10	450	1	§ 3
Manston	991.6	+10	S	4	c/r	49	97	6	6	2	-	4-6	10	800	1	*
Shoeburyness	990.8	+8	S	4	iro	48	92	8	6	7	-	7-8	10	2500	1	*
Felixstowe	991.3	+8	SSE	4	bc	45	97	7	5	-	8	2-3	4-6	1500	1	3
Gorleston	992.1	+6	SE'S	3	pr	44	92	6	6	-	-	10	10	1500	1	2
Mildenhall	989.3	+10	SE	3	c	50	92	7	5	2	-	7-8	10	1500	1	*
Cranwell	989.4	+16	E'S	3	o/r	48	92	6	5	-	-	10	10	1500	1	*
Birmingham	987.0	+22	ENE	3	rf	48	92	2	6	-	-	10	10	800	1	*
Upper Heyford	987.2	+18	SE	2	dodo	48	97	6	9	-	-	10	10	450	1	*
Ross-on-Wye	987.1	+34	W'N	2	roro	48	97	5	6	-	-	10	10	450	1	*
Hartland Point	990.5	+40	NW	4	c	47	97	7	5	2	-	9+	10	1500	1	3
Bristol	987.3	+42	WSW	4	ir	48	92	5	6	-	-	10	10	450	1	*
Portland Bill	989.5	+42	W	4	c	49	92	7	5	7	-	4-6	7-8	2500	1	5
Plymouth	991.7	+42	W'N	4	c/r	50	92	5	6	-	-	9+	9+	800	1	3
The Lizard	993.6	+20	WNW	4	c	49	97	6	8	2	-	7-8	7-8	2500	1	2
Scilly (St. Mary's)	994.1	+26	NW'W	6	c	49	92	6	8	7	-	7-8	10	800	1	4
Guernsey	992.4	+34	SW'W	4	c	50	97	7	8	-	-	10	10	1500	1	4
Pembroke	990.0	+28	NNE	5	c	47	83	6	8	-	-	9	9	1500	1	3
Holyhead	990.1	+34	NNE	5	c	46	92	7	5	-	-	10	10	800	1	3
Chester (Sealand)	989.9	+34	NNE	2	df	48	92	3	-	-	-	10	10	<150	1	*
Manchester	989.2	+18	NE	3	iro	49	92	4	5	7	-	4-6	10	1500	2	*
Spurn Head	990.4	+14	ESE	3	pr	44	97	6	5	-	-	7-8	7-8	800	1	2
Catterick	991.6	+26	NE'N	2	c/r	45	97	5	5	2	-	9	10	1500	1	*
Tynemouth	992.4	+16	E	5	roro	45	97	6	-	2	-	10	10	1500	1	3
St. Abbs Head	995.3	+14	NE	5	roro	43	97	7	3	2	-	7-8	10	1500	1	4
Leuchars	997.4	+14	NE	4	ido	43	97	7	-	2	-	10	10	800	1	*
Renfrew (Abbots I.)	997.1	+14	NE	2	c	41	85	7	5	-	-	10	10	1500	1	*
Eskdalemuir	993.6	+42	NE'N	4	dr	41	92	7	5	-	-	10	10	800	1	*
Point of Ayre	992.5	+14	ENE	5	c	45	85	8	5	-	-	9+	9+	1500	1	4
Tiree	999.0	+18	NE	4	c	42	75	8	5	-	-	7-8	7-8	2500	0	3
Stornoway	1002.7	+20	NE	3	c	39	65	7	5	-	-	7-8	7-8	2500	1	3
Dalwhinnie	1000.7	+6	NE	4	c	35	75	6	4	4	-	7-8	9+	2500	0	*
Aberdeen	1000.2	+14	ENE	5	o	43	92	7	5	-	-	10	10	800	1	3
Wick	1002.7	+16	E	5	c	43	75	8	5	7	-	7-8	9+	1800	1	2
Lerwick	1004.3	+10	ENE	5	bc	39	75	8	5	-	-	4-6	4-6	1500	1	*
Blacksod Point	996.8	+36	NE	3	c	45	92	7	-	7	-	0	10	-	1	3
Malin Head	997.2	+40	E'N	4	c	44	75	8	5	-	-	9	9	4000	0	4
Aldergrove	994.8	+28	E'N	5	c	42	85	7	5	-	-	10	10	2500	1	*
Birr Castle	994.6	+36	ENE	1	c	44	97	7	5	-	-	10	10	1500	1	*
Valentia Obsy. †	997.6	+40	NW'N	3	c	49	85	7	6	-	-	9	9	1500	1	2
Roches Point	994.9	+40	N'W	4	c	47	97	6	5	1	-	4-6	9+	1500	1	5

PAST 24 HOURS. — Weather

Stations	7h.–13h. 18th (37)	13h.–18h. 18th (38)	18h. 18th to 1h. 19th (39)	1h.–7h. 19th (40)
London (Kew)	cmodrrro	cododoc	codrocro	rrocroc
Croydon	dororod	dododrd	codrrmo	rrddm
S. Farnborough	iriRdodc	dRdoiroc	iroidoc	idoiroc
Boscombe Down	rroddmo	oddciro	cmrroddo	c
Calshot (Sthmtn.)	cdoromo	cmo	cirobccm	cmoc
Lympne	crorc	ororrir	fddomm	omorrro
Manston	ciro	croromo	cidorr	cirddom
Shoeburyness	cprc	priro c	irorrc	cidoo
Felixstowe	cprcpro	ccprorr	bcccroro	crorocm
Gorleston	cbcq	bccopro	oroo	ozoff
Mildenhall	cproiro	c	ciridoo	cmom
Cranwell	ororodoc	cdoiromo	omoiroir	omdodof
Birmingham	oiro	rirof	oror	oir
Upper Heyford	ccroidomo	rododomodo	dodocmo	cmomf
Ross-on-Wye	roirrorocd	roroororo	romo	omoo
Hartland Point	mffF	ffc	c	c
Bristol	crordr	cdrrir	cirmo	c
Portland Bill	orr	c	c	c
Plymouth	iroemo PR	cpriromo	croiroir	ccmo
The Lizard	bcprc	cprc	cbc	bcprc
Scilly (St. Mary's)	cpoc	cpoc	cbc	bcW
Guernsey	odoir	cir	cidoo	o
Pembroke	idmoc	cmoq	cqbc	c
Holyhead	bcmoc	cmododo	ccboc	c
Chester (Sealand)	bcofdr	orddomf	ofdoroc	cromo
Manchester	crordoff	cffiromo	cmmroro	cmororo
Spurn Head	ircmo	cpro	cFf	ffd
Catterick	roofrr	fmoorro	cmodoof	iroof
Tynemouth	offrr	oirorr	ororomo	off
St. Abbs Head	rrqc	cqrr	rrqc	cmrr
Leuchars	cdodoc	ciroido	idoiriroir	crororom
Renfrew (Abbots I.)	rododomoc	cidoc	cmoidroro	cmrociro
Eskdalemuir	cdodoc	cododo	ododo	dooro
Point of Ayre	cprc	c	c	c
Tiree		bcc	c	cidc
Stornoway	cbc	bc	b,cpro	cpro
Dalwhinnie	ciso	c	*	c
Aberdeen	c	co	ororo	ororo
Wick	cq	c	cq	cmo
Lerwick	bc	bc	bcc	cbc
Blacksod Point	proc	c	c	c
Malin Head	c	c	c	cidc
Aldergrove	roromoproc	c	c	omo
Birr Castle	cid	cidc	c	c
Valentia Obsy. †	coidoc	cidoc	crocbc	bcb
Roches Point	cidc	cidczo	czobc	bc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/so, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
so/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.

q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. ro, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
⊕, Solar halo. lunar halo. Aurora.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus :—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations :—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As: Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. „ wet.
2 .. „ flooded.
3 .. „ frozen hard and dry.
4 .. „ partly covered with snow or hail.
5 .. „ covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. „ covered with snow, less than 6 ins., deep but ground not frozen.
8 .. „ covered with snow, less than 6 ins., but ground frozen
9 .. „ covered with snow greater than 6 ins. deep.

NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

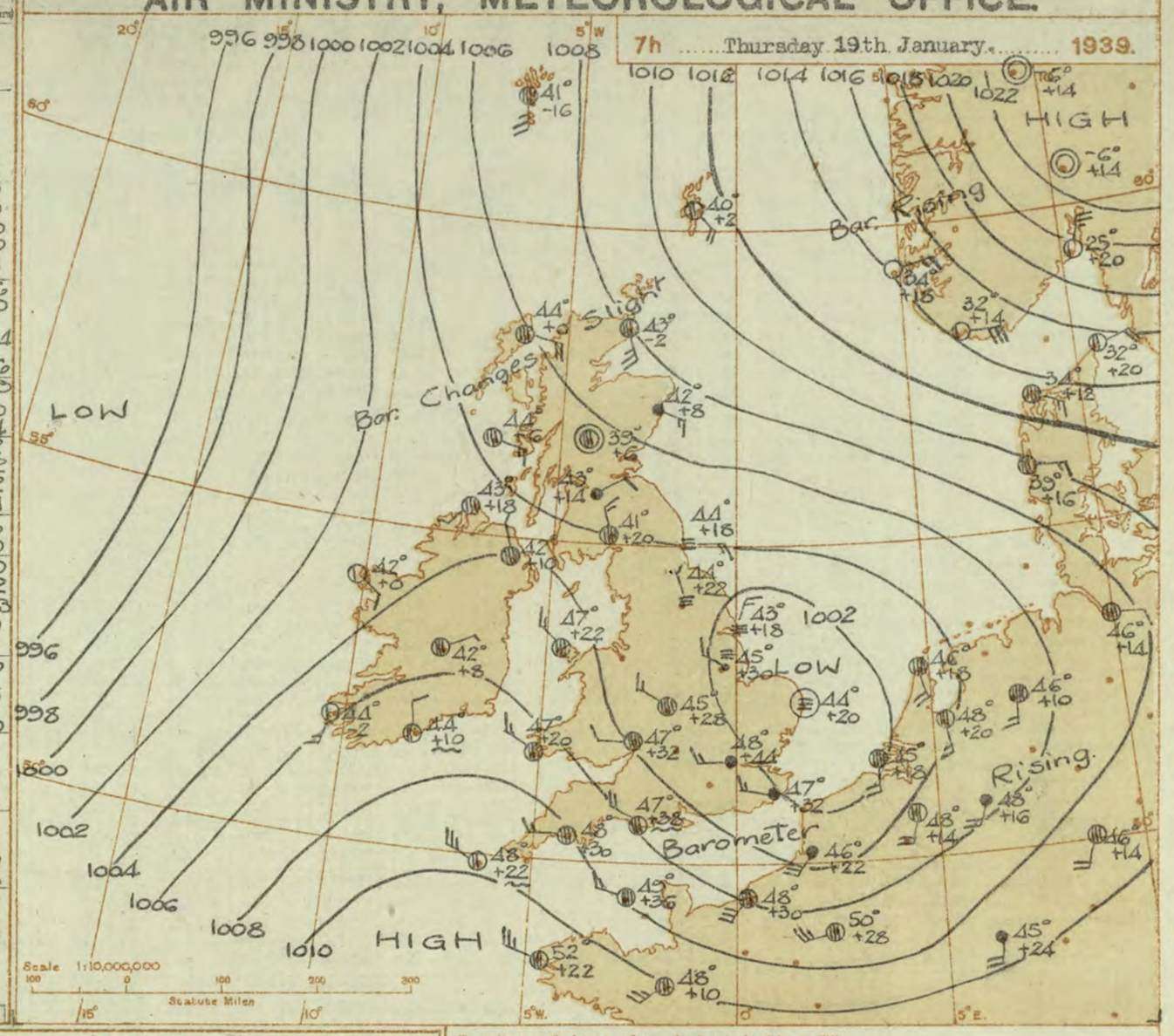
§ See disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 18th January 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F.) Min. 9h. 17th. to 9h. 18th.	Temperature. (°F.) Max. 9h.—17h. 18th.	Rainfall. (mm.) Night. 17h. 17th to 9h. 18th.	Rainfall. (mm.) Day. 9h.—17h. 18th.	Sunshine (hrs) Sunrise to Sunset. 18th.
1	Tunbridge W.	ore	ore	45	50	6	3	0·0
	Bournemouth	roir	opo	47	50	5	2	0·0
	Ventnor ...	opfc	opof	47	49	0·5	1	0·1
	Southsea ...	cor	oroc	47	50	1	4	0·0
	Bognor Regis	oir	oir	46	49	2	2	0·0
	Littlehampton	ccr	cre	47	50	1	1	0·0
	Worthing ...	cro	cro	47	50	2	2	0·0
	Brighton ...	c	cdc	48	50	3	2	0·0
	Eastbourne† ...	coir	irodo	49	51	1	2	0·0
	Hastings† ...	coiro	rro	48	51	1	3	0·1
	Folkestone ...	occroc	ocoro	46	53	2	1	0·6
	Dover ...	odoc	coro	46	53	2	1	0·0
	Deal							
	Ramsgate ...	co	cdo	45	50	1	0·3	0·4
	Margate ...	cbcc	cbccr	47	53	2	0·5	0·6
2	Southend ...	coir	ocir	45	49	3	3	0·3
	Clacton-on-Sea	cpc	cpopo	43	47	2	2	0·0
	Dovercourt ...	rbc	roc	44	48	4	2	0·4
	Lowestoft ...	cpbc	cir	44	50	6	0·1	1·2
	Skegness ...	ocorc	bcoro	40	49	4	2	0·2
	Mablethorpe...	opo	oco	41	50	3	0·3	0·2
	Cleethorpes ...	roc	bcc	42	50	9	Trace	0·1
3	Leamington S.	cor	oro	42	52	6	4	0·6
4	Cheltenham†	oiroc	oir	47	52	6	3	0·0
5	Bath	cir	cir	48	51	7	3	0·0
	Weymouth ...	rocc	c	48	51	4	–	0·2
	Jersey ...	pcr	cr	48	53	Trace	2	0·3
	Torquay ...	bc	c	45	53	14	–	2·0
	Falmouth	odmgr	c	48	51	9	1	1·0
	Penzance ...	cgir	cpcc	48	53	11	0·3	0·0
	St. Ives ...							
	Bude... ...	odo	odo	48	49	0·3	Trace	0·0
	Ilfracombe ...	crror	ordo	42	51	6	2	0·0
6	Aberystwyth	pr	prc	46	51	7	3	0·0
7	Llandudno ...	omo	ogdmo	44	46	6	0·1	0·0
	Colwyn Bay...	o	dgmdo	43	46	8	1	0·0
	Rhyl	omdo	ogmy	44	48	5	Trace	0·0
8	Wallasey ...	crr	rfp	45	47	6	2	0·0
	Southport ...	coz	irocz	44	47	3	0·3	0·0
	Blackpool ...	c	oiro	43	47	3	0·5	0·0
	Morecambe ...	bc	rfoc	42	47	8	3	0·4
9	Ilkley... ...	rpr	rro	41	45	9	5	0·0
	Harrogate ...	ofdr	ofdr	41	48	8	7	0·0
10	Berwick-on-T.	orog	go	42	44	11	0·2	0·0
11	Dunbar ...	crr	cpro	40	44	11	1	0·0
12	Troon... ...	oco	co	42	48	-	–	0·1
	Douglas ...	CiR	cpr	40	44	11	2	0·1

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 19th January, 1939.
1 S.E. England 2 E. England ... 3 E. Midlands ...	Southwest to south winds, fresh at times; bright periods at first, becoming cloudy; mild.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ...	Westerly winds, backing south, becoming strong or gale later; bright periods at first becoming cloudy or dull with rain at times; mild.
8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland	Light variable winds, increasing from south to strong or gale later; local fog at first, cloudy or dull later with rain at times; becoming rather mild.
15 N. E. Scotland 16 Orkney and Shetland	Moderate or fresh southeast winds, falling light temporarily but increasing to strong or gale later; occasional rain; becoming rather mild.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Southerly winds, increasing to strong, a gale at times; cloudy, dull at times with periods of rain, becoming fairer later; mild.

GENERAL INFERENCE.

A depression over the North Sea is filling up and a deep depression over Mid-Atlantic will move northeast. Rain will spread from the West. Temperatures will rise in the North.

FURTHER OUTLOOK.

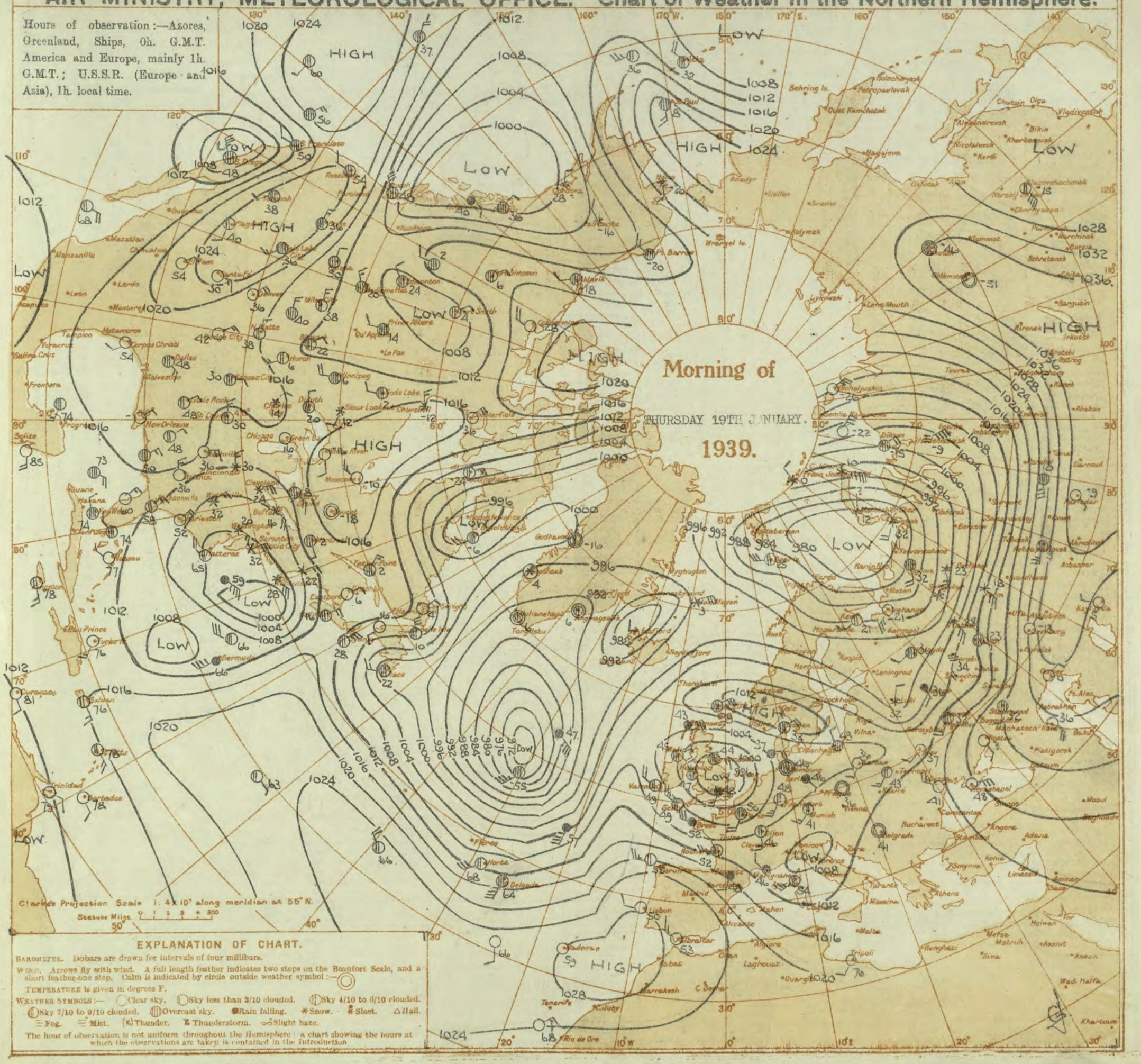
Mild and unsettled probably stormy.

Forecasts issued at 1015 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S.
Director.

H.M. Stationery Office Press, Kingsway, W.C.2

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 19th January, 1939.
No. 28182

OBSERVATIONS at 1 hr. G.M.T. 19th January

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0–9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	984·5	+20	SSW	3	dr	48	92	6	6	–	–	10	10	1500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	996·7	+22	SW'S	3	c/r	46	97	6	5	–	–	9+	9+	2500
	Manston ...	154	998·8	+18	S	2	o/r	48	92	6	5	–	–	10	10	7200
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	996·1	+20	S	3	o	43	92	6	5	–	–	10	10	2500
	Mildenhall ...	19	994·8	+30	ENE	2	z_o	47	97	6	5	–	–	10	10	2500
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1000·8	+42	NW	4	c	47	97	8	5	2	–	9+	10	1500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	997·6	+28	NW	4	c	48	92	7	5	–	–	10	10	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1002·9	+40	NW	4	bc	48	92	8	8	6	–	4·6	4·6	2500
	Scilly (St. Mary's)	163	1003·7	+34	NW	5	bc	49	92	6	5	4	–	4·6	4·6	1500
	Guernsey ..	175	1001·3	+36	W	3	o	50	92	7	5	–	–	10	10	2500
6	Pembroke ...	142	1000·9	+38	N'W	4	bc	46	85	7	5	2	–	2·3	4·6	1500
7	Holyhead ...	26	999·0	+38	NNW	4	c	47	85	7	5	–	–	7·8	7·8	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	996·3	+24	NE'E	2	F+	44	97	1	–	–	–	10	10	<150
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	999·4	+32	E	4	m	44	92	4	5	–	–	10	10	800
11	St Abbs Head ..	280	1001·2	+24	E	5	c	43	97	7	3	2	–	7·8	10	1500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	998·8	+34	ENE	3	c	45	92	7	5	–	–	10	10	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1005·2	+14	ENE	5	pr	43	85	7	5	2	–	7·8	10	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1006·5	+12	SE	5	cq	44	85	7	5	1	–	7·8	9+	1500
16	Lerwick ...	156	1009·5	+26	ENE	5	c	39	75	8	8	7	–	4·6	7·8	1500
17	Blacksod Point	18	1003·5	+20	N	2	c	44	97	6	–	2	–	0	10	–
18	Malin Head ...	84	1002·2	+20	NE	1	c	45	85	7	5	–	–	9+	9+	4000
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1004·7	+20	NW	4	bc	49	92	8	5	–	–	2·3	2·3	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 19th January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
London (Kew)	1002·5	+44	WNW	3	z_o	49	85	6	5	–	–	10	10	1500	1	*
Croydon ...	1002·5	+44	W	3	dr	48	97	5	5	–	–	10	10	450	1	*
S. Farnborough	1003·2	+40	WNW	3	z_o	49	92	5	5	–	–	10	10	800	2	*
Boscombe Down	1004·7	+32	NW'W	4	c	45	92	7	5	3	–	4·6	7·8	1500	1	*
Calshot (Sthmtn.)	1004·7	+28	W'N	4	c	48	85	7	5	–	–	10	10	800	1	2
Lympne ...	1002·0	+32	W'N	3	id_o	47	97	5	5	–	–	10	10	220	1	3
Manston ...	1000·6	+30	W'N	3	d_od_o	47	97	4	6	–	–	10	10	450	1	*
Shoeburyness ...	1001·3	+40	NW	2	id_o	48	97	5	5	–	–	10	10	1500	1	*
Felixstowe ...	1000·1	+22	NW'W	2	m	46	97	4	5	–	8	4·6	7·8	2500	1	1
Gorleston ...	1000·6	+20	–	0	f	44	92	2	–	–	–	10	10	<150	1	2
Mildenhall ...	1000·9	+32	NW'W	2	f+	47	97	2	–	–	–	10	10	<150	1	*
Cranwell ...	1001·9	+30	NW	3	df	45	97	2	5	–	–	10	10	220	1	*
Birmingham ...	1004·2	+28	NW	3	o	45	97	5	5	–	–	10	10	800	1	*
Upper Heyford	1003·4	+20	W'N	3	if	47	92	3	5	–	–	10	10	220	1	*
Ross-on-Wye	1003·7	+32	W	2	o	47	85	7	5	–	–	10	10	1500	1	*
Hartland Point	1007·0	+24	WNW	3	c	46	97	8	5	2	–	4·6	10	1500	1	3
Bristol ...	1005·0	+34	W	4	c	46	85	7	5	–	–	10	10	1500	1	*
Portland Bill ...	1005·9	+38	NW	4	c	47	85	7	5	7	–	7·8	10	2500	1	4
Plymouth ...	1008·2	+30	W	3	z_o	48	85	6	5	–	–	9	9	1500	1	2
The Lizard ...	1008·5	+28	WNW	4	c	48	97	7	8	2	–	7·8	9+	1500	1	2
Scilly (St. Mary's)	1009·2	+22	WNW	5	bc	48	92	8	5	–	–	2·3	2·3	2500	1	4
Guernsey ..	1007·6	+36	WNW	3	o	49	85	7	5	–	–	10	10	2500	1	3
Pembroke ...	1006·2	+20	WNW	3	c	47	85	7	5	–	–	7·8	7·8	2500	1	2
Holyhead ...	1004·0	+22	NW'W	3	c	47	92	8	5	–	8	2·3	7·8	2500	1	2
Chester (Sealand)	1004·0	+20	WNW	2	z_o	45	92	6	5	–	–	10	10	1500	1	*
Manchester ...	1003·6	+30	W'N	2	r_or_o	45	97	5	5	2	–	4·6	10	1500	2	*
Spurn Head ...	1001·6	+18	NNE	3	f	43	97	3	–	–	–	10	10	<150	1	2
Catterick ...	1003·7	+22	NW'N	1	f	44	97	2	–	–	–	10	10	<150	1	*
Tynemouth ...	1004·2	+18	E	3	of	44	97	3	5	–	–	10	10	800	1	3
St Abbs Head ..	1004·9	+12	SE	1	r_or_o	43	97	4	3	2	–	7·8	10	1500	1	3
Leuchars ...	1005·9	+14	–	0	ir_o	43	97	6	–	2	–	10	10	450	1	*
Renfrew (Abbots I.)	1004·8	+14	ENE	2	ir_o	43	97	6	5	–	–	10	10	800	1	*
Eskdalemuir ...	1004·9	+20	N'W	3	o	41	97	5	5	–	–	10	10	220	1	*
Point of Ayre...	1003·4	+16	NE	2	c	45	92	7	5	–	–	9+	9+	1500	1	2
Tiree	1004·5	+6	SE'E	3	c	44	92	7	5	–	–	9+	9+	2500	0	*
Stornoway ...	1005·5	0	ESE	4	c	44	75	7	5	2	–	4·6	10	2500	1	2
Dalwhinnie ...	1007·6	+6	–	0	c	39	85	7	4	6	–	7·8	9+	2500	0	*
Aberdeen ...	1007·4	+8	ESE	3	r_or_o	42	92	7	6	2	–	10	10	800	1	3
Wick ...	1007·8	-2	SSE	5	c	43	85	6	5	2	–	9+	10	1500	1	2
Lerwick ...	1011·7	+2	SE	4	bc	40	75	8	5	3	–	4·6	4·6	1500	1	*
Blacksod Point	1003·9	0	SE	2	b	42	92	7	4	–	–	1	1	2500	0	3
Malin Head ...	1003·8	+18	SW'W	1	c/d	43	97	6	8	–	–	9	9	2500	0	2
Aldergrove ...	1004·0	+10	N'W	1	z_o	42	92	6	5	–	–	10	10	800	1	*
Birr Castle ...	1005·0	+8	ENE	1	c	42	97	7	5	–	–	10	10	1500	1	*
Valentia Obsy. †	1006·2	-2	S'W	3	b	44	92	8	–	4	–	0	Tr	–	1	2
Roches Point	1007·2	+10	N	2	bc	44	92	8	5	–	–	2·3	2·3	2500	1	4

PAST 24 HOURS.

Stations	Temperature. Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall. Day 7h–18h mm. (34)	Rainfall. Night 18h–7h mm. (35)	Sunshine 18th Hrs. (36)
London (Kew)	51	48	47	1	3	0·0
Croydon ...	51	46	46	3	4	0·0
S. Farnborough	49	49	46	4	2	0·0
Boscombe Down	50	45	42	3	2	0·1
Calshot (Sthmtn.)	51	47	46	2	0·1	0·1
Lympne ...	50	45	45	2	4	0·0
Manston ...	54	46	46	1	2	0·4
Shoeburyness ...	50	45	44	2	2	0·8
Felixstowe ...	48	44	43	1	0·3	0·6
Gorleston ...	51	42	40	0·2	0·2	1·8
Mildenhall ...	52	46	43	0·3	0·2	0·6
Cranwell ...	50	44	44	3	2	0·0
Birmingham ...	49	45	44	0·5	3	0·0
Upper Heyford	49	45	45	1	0·5	*
Ross-on-Wye	50	46	44	8	1	0·1
Hartland Point	49	45	46	4	–	0·0
Bristol ...	51	45	43	5	2	0·1
Portland Bill ...	51	46	*	1	–	*
Plymouth ...	50	48	46	1	1	0·2
The Lizard ...	51	47	*	0·4	Tr	0·7
Scilly (St. Mary's)	51	48	*	0·2	–	0·2
Guernsey ..	52	49	47	2	Tr	0·1
Pembroke ...	50	45	*	0·3	–	1·2
Holyhead ...	47	45	43	0·1	–	0·4
Chester (Sealand)	48	45	43	2	2	0·0
Manchester ...	49	44	42	3	0·6	0·0
Spurn Head ...	45	43	*	1	Tr	0·4
Catterick ...	49	44	43	9	1	0·0
Tynemouth ...	49	44	43	8	1	0·0
St Abbs Head ..	43	42	*	1	2	*
Leuchars ...	43	42	41	1	5	0·0
Renfrew (Abbots I.)	41	41	39	0·2	1	0·0
Eskdalemuir ...	42	41	41	6	2	0·0
Point of Ayre...	45	44	*	0·2	–	0·1
Tiree	43	41	40	–	0·3	2·9
Stornoway ...	41	39	*	–	Tr	2·1
Dalwhinnie ...	36	34	31	Tr	–	2·1
Aberdeen ...	43	41	39	*	1	0·1
Wick ...	43	42	*	–	–	*
Lerwick ...	40	37	*	–	–	5·9
Blacksod Point	46	34	*	0·3	–	*
Malin Head ...	45	41	*	–	0·5	0·0
Aldergrove ...	44	41	40	0·2	–	0·0
Birr Castle ...	45	39	31	0·6	–	0·0
Valentia Obsy. †	49	44	38	0·1	0·4	0·0
Roches Point	49	44	*	0·3	–	*

LONDON OBSERVATIONS

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except for rainfall which is 9h—18h.

	Height above M.S.L. in feet.	Weather Morning. (24 hrs. ended 9h.)	Weather Afternoon.	Weather Night.	Temperature. Day Max. °F.	Night Min. °F.	Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset hrs. (Yesterday.)	Humidity. 16h. G.M.T. % (To-day.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h.
Kew...	18	$cm_od_orr_o$	$cr_od_od_oc$	$cd_or_ocr_o$	51	48	47	1	3	0·0	*	*	5
Croydon	217	d_or_ord	d_od_ord	cd_orrm	51	46	46	3	4	0·0	*	*	3
Greenwich (Royal Observatory)...	149	cid	cidc	circ	51	47	45	1	3	0·3	94	92	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0·0	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	53	49	46	5		0·0	92	96	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*	52	47	46	1	3	0·0	79	92	*
Camden Square	110	c	o	*	51	48	46	0·5	0·3	*	*	92	*
Kensington	80	cr	c	*	52	48	46	1	3	0·0	At 15h. 54	96	*
Hampstead Observatory	450	or	or	or	49	46	44	2	3	0·0	*	98	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 19th

South Kensington. Max.	Time.	Min.	Time.	Kew Observatory. Max.	Time.	Min.	Time.
0·3	17–18h 18th	<0·3	0–5h 19th	0·2	4–6h 19th.	0·1	3h. 19th.

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 18th January. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 19th January. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
Paris	998·1	SSW	4	c	52	1007·5	WSW	5	z_o	50	54	50	0·1	Tr
Brussels	997·1	S	5	pr	46	1002·7	SSW	d	c	48	54	41	0·3	8
Berlin	1002·5	SSW	1	bc	48	1009·6	–	0	z_o	45	48	45	–	Tr
Zürich	1009·6	SW	1	ir	46						52		2	
Rome	1014·6	SE	7	c	57	1012·1	SE'E	1	c	54	*	*	–	–

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	<1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	> 75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 3, 22 —Code for surface visibility.

		Objects not visible at
0	Dense fog	55 yards.
1	Thick fog	220 „
2	Fog	550 „
3	Moderate fog	1,100 „
4	Mist or haze	1½ miles.
5	Poor visibility	2½ „
6	Moderate „	6½ „
7	Good „	12½ „
8	Very good „	31 „
9	Excellent „	beyond 31m.

COLUMN 30.—Code for State of Sea.

0	Calm.	5	Very rough.
1	Smooth..	6	High.
2	Slight.	7	Very high.
3	Moderate.	8	Precipitous.
4	Rough.	9	Confused.

TERMS OF SUBSCRIPTION. Single Copies, 1d. each: by post 1½d. 2/6 per month; 6/6 per quarter; 25/- per year.

METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY, LONDON, W.C.2.

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

† For obs. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 20th January, 1939.
No. 28183

OBSERVATIONS at 13h. G.M.T. 19th January

District	Stations. (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	°Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1008.5	+18	WNW	3	z	45	85	6	5	–	–	10	10	1500
	Croydon ...	1008.7	+26	W	3	z	46	85	5	5	–	–	10	10	800
	S. Farnborough	1008.6	+14	WNW	3	z	46	85	6	5	–	–	9+	9+	2500
	Boscombe Down	1009.7	+14	W'N	3	bc	48	85	8	8	2	–	4-6	4-6	2500
	Calshot (Sthmtn.)	1010.2	+18	W	3	c	51	75	8	1	–	–	7-8	7-8	4000
	Lympne ...	1008.3	+18	WNW	3	c/pr	48	97	5	5	–	–	9+	9+	2500
	Manston ...	1007.6	+30	W'N	4	z	48	85	5	5	2	–	9	10	800
2	Shoeburyness ...	1007.4	+20	W	2	m	50	85	4	5	–	–	10	10	1500
	Felixstowe ...	1006.7	+26	WNW	3	o/d	47	92	5	5	–	–	10	10	450
	Gorleston ...	1005.1	+20	NW	2	fog	46	97	4	5	–	–	10	10	450
	Mildenhall ...	1006.7	+22	W'N	3	c	47	97	3	5	–	–	10	10	<150
	Cranwell ...	1007.0	+22	WNW	2	f	46	97	3	–	–	–	10	10	<150
3	Birmingham ...	1007.6	+12	W	2	m	46	85	4	5	2	–	7-8	9+	1500
	Upper Heyford	1008.6	+18	W	3	c	47	85	7	5	7	–	7-8	9	800
4	Ross-on-Wye	1008.3	+4	WSW	2	c	45	75	8	5	–	–	9+	9+	2500
5	Hartland Point	1009.1	0	WSW	4	c	47	97	8	8	2	3	4-6	7-8	1500
	Bristol ...	1009.6	+14	W	3	bc	48	85	7	4	–	–	4-6	4-6	4000
	Portland Bill ...	1010.2	+12	WSW	4	c	49	92	7	5	–	–	10	10	2500
	Plymouth ...	1011.1	+4	SW	3	c	50	85	8	7	3	6	4-6	9	2500
	The Lizard ...	1010.4	–6	SW	4	c	50	97	7	8	2	–	7-8	9+	1500
	Scilly (St. Mary's)	1009.4	–14	SSW	4	c	50	92	7	5	7	–	2-3	10	2500
	Guernsey ...	1012.0	+10	WSW	3	c	52	85	7	2	7	8	2-3	7-8	2500
6	Pembroke ...	1008.8	+10	WSW	3	c	48	92	7	8	7	1	4-6	9	2500
7	Holyhead ...	1007.5	+10	SW	3	bc	48	85	7	1	–	–	2-3	2-3	2500
	Chester (Sealand)	1007.5	+10	–	0	z	47	92	6	5	–	–	9+	9+	2500
8	Manchester ...	1007.4	+14	NW	2	m/d	45	97	4	5	2	–	7-8	10	2500
10	Spurn Head ...	1006.2	+16	NNW	2	F	44	97	1	–	–	–	10	10	<150
	Catterick ...	1007.0	+12	NNW	1	m	45	97	4	5	–	–	10	10	800
	Tynemouth ...	1006.6	+8	E	2	of	44	97	2	5	–	–	10	10	1500
11	St. Abbs Head ...	1007.1	+6	SE	1	f	45	97	3	–	–	–	10	10	<150
	Leuchars ...	1006.8	+2	SE	1	of	44	97	2	–	2	–	10	10	220
12	Renfrew (Abbotsinch)	1006.2	+2	ENE	2	m	45	92	4	–	2	–	10	10	450
	Eskdalemuir ...	1005.9	+4	ENE	1	c	44	97	7	5	–	–	9+	9+	1500
	Point of Ayre ...	1005.8	+8	W'N	2	c	47	92	7	5	2	–	7-8	9+	1500
13A	Tiree ...	1002.8	–14	SE'E	4	c	45	97	7	5	–	–	9+	9+	1500
13B	Stornoway ...	1005.4	–6	ESE	4	c	44	85	5	5	7	–	7-8	9	4000
15	Dalwhinnie ...	1002.5	–6	–	0	c	41	85	6	5	–	–	9+	9+	1500
	Aberdeen ...	1007.0	–4	SE	2	dd	44	97	4	–	2	–	10	10	800
	Wick ...	1007.6	–8	SSE	5	c/pr	44	97	8	5	2	–	9+	10	1500
16	Lerwick ...	1011.0	–6	SE	5	c	41	85	8	8	7	–	7-8	9	1500
17	Blacksod Point	999.4	–40	SSE	3	dr	45	92	7	5	–	–	10	10	2500
18	Malin Head ...	1002.4	–20	S	2	bc	46	85	8	5	–	4	4-6	4-6	4000
	Aldergrove ...	1004.4	–12	SW	1	z	43	92	6	5	–	–	9+	9+	800
19	Birr Castle ...	1004.1	–16	ESE	1	c	45	92	8	5	–	–	9	9	1500
20	Valentia Obsy. †	999.2	–50	SSE	6	rr	49	92	6	5	2	–	4-6	10	1500
	Roches Point	1004.7	–18	SSW	3	c	49	92	8	6	2	–	4-6	10	1500

OBSERVATIONS at 18h. G.M.T. 19th January

District	Stations.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	°Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	1009.6	+4	SSW	2	z	48	85	5	5	–	–	9+	9+	1500	1	*
	Croydon ...	1010.0	+8	SSW	3	z	47	85	5	5	–	–	10	10	4000	1	*
	S. Farnborough	1010.0	+2	SSW	3	z	46	85	6	5	–	–	10	10	4000	1	*
	Boscombe Down	1009.7	–2	SSW	3	z	45	97	6	5	7	–	7-8	10	1500	1	*
	Calshot (Sthmtn.)	1011.0	+2	SW'W	4	c	47	92	7	5	7	6	4-6	9+	4000	1	2
	Lympne ...	1011.6	+10	WSW	3	z	45	85	5	5	–	–	2-3	2-3	4000	1	§ 1
	Manston ...	1010.1	+12	SW'W	3	z	48	85	6	5	2	–	7-8	10	1500	1	*
2	Shoeburyness ...	1009.6	+10	SW	2	m/d	47	92	4	5	–	–	10	10	1500	1	*
	Felixstowe ...	1009.1	+16	W	3	z	48	92	5	5	–	–	10	10	800	1	2
	Gorleston ...	1007.5	+10	W	2	c	47	92	5	5	–	–	10	10	2500	1	1
	Mildenhall ...	1008.1	+6	SW	3	z	47	92	5	5	–	–	10	10	1500	1	*
	Cranwell ...	1007.5	+8	SW'W	2	o/f	46	97	5	5	–	–	10	10	450	1	*
3	Birmingham ...	1007.4	0	S	2	c	45	85	5	5	7	–	7-8	9+	1500	1	*
	Upper Heyford	1008.9	0	SW	2	z	45	85	6	5	–	–	9+	9+	2500	1	*
4	Ross-on-Wye	1007.5	–4	S	2	z	46	85	6	5	–	–	10	10	1500	1	*
5	Hartland Point	1005.5	–24	SSE	3	rr	47	92	7	–	2	–	10	10	1500	1	3
	Bristol ...	1008.6	–10	S	2	z	46	85	7	5	7	–	4-6	9+	2500	1	*
	Portland Bill ...	1009.3	+6	SW	4	c	49	92	7	5	–	–	10	10	2500	1	4
	Plymouth ...	1007.6	–26	S	3	rr	49	92	6	–	2	–	10	10	800	1	1
	The Lizard ...	1005.7	–40	SW	6	rr	50	97	5	5	–	–	10	10	800	1	3
	Scilly (St. Mary's)	1002.6	–40	SW	5	dr	51	97	5	5	–	–	10	10	800	1	4
	Guernsey ...	1011.2	–12	SW	2	rr	50	85	6	5	–	–	10	10	1500	1	3
6	Pembroke ...	1004.1	–20	S	5	o/r	47	85	6	5	–	–	10	10	800	1	2
7	Holyhead ...	1003.6	–20	SE	4	c	46	92	7	5	2	–	4-6	10	800	1	2
	Chester (Sealand)	1006.1	–12	–	0	of	45	92	3	5	2	–	4-6	10	4000	1	*
8	Manchester ...	1006.3	–6	SE	2	of+	45	92	3	5	–	–	10	10	1500	1	*
10	Spurn Head ...	1006.8	+2	W'N	1	f–	43	97	2	–	–	–	10	10	<150	1	1
	Catterick ...	1005.9	–2	–	0	f+	45	97	2	–	–	–	10	10	<150	1	*
	Tynemouth ...	1005.7	–10	SE	2	of	44	97	2	5	–	–	10	10	800	1	2
11	St. Abbs Head ...	1004.8	–2	SE	3	f	43	97	3	–	–	–	10	10	<150	1	*
	Leuchars ...	1004.7	–14	SE	3	m/f	43	97	4	–	2	–	10	10	220	1	*
12	Renfrew (Abbotsinch)	1003.5	–10	SE'E	1	o/f	46	92	5	5	–	–	10	10	1500	1	*
	Eskdalemuir ...	1003.8	–26	SSE	3	d	44	97	6	–	2	–	10	10	800	1	*
	Point of Ayre ...	1004.1	–12	SSW	4	c	45	85	7	5	2	–	7-8	10	1500	1	2
13A	Tiree ...	998.5	–18	SE'S	6	c	45	92	7	5	–	–	9+	9+	1500	0	4
13B	Stornoway ...	1000.8	–14	SE	5	c	46	85	8	5	7	–	9	10	4000	1	3
15	Dalwhinnie ...	1003.7	+14	NE	4	f+	40	97	3	–	–	–	10	10	<150	1	*
	Aberdeen ...	1005.6	–14	SE'S	3	df	44	97	3	–	–	–	10	10	<150	1	2
	Wick ...	1004.6	–10	SSE	6	c	44	97	6	5	2	–	9	10	800	1	3
16	Lerwick ...	1008.1	–12	SSE	8	rr	42	97	7	6	2	–	4-6	10	800	1	*
17	Blacksod Point	999.9	–38	SE	2	c	48	92	7	9	–	–	9+	9+	1500	1	3
18	Malin Head ...	997.7	–40	S	4	rr	43	92	6	3	–	–	9+	9+	2500	0	2
	Aldergrove ...	1000.3	–14	SE	4	ir	44	85	6	–	2	–	10	10	2500	1	*
19	Birr Castle ...	999.3	–34	ESE	2	ir	46	97	7	6	2	–	7-8	10	800	1	*
20	Valentia Obsy. †	994.6	–16	SW'S	6	c/b	54	92	6	6	–	–	10	10	1500	1	4
	Roches Point	997.2	–36	SSW	5	o/d	50	97	7	5	–	–	10	10	800	1	4

PAST 24 HOURS.

District	Stations.	Weather. 7h.–13h. 19th. (37)	13h.–18h. 19th. (38)	18h. 19th to 1h. 20th. (39)	1h.–7h. 20th. (40)
1	London (Kew)	cm.omo	cm.cm.	cr.rr	rr.cm.
	Croydon ...	r.d.fmm	cm.	cm.r.rr	rrrddm
	S. Farnborough	oid.cm.	c	d.r.c	r.r.c.b.c
	Boscombe Down	cbc	bccm.	cm.rrc	cbcc
	Calshot (Sthmtn.)	cbcb	bccm.	ccrrm.	crrcm.
	Lympne ...	d.fompr	cbcm.	bccm.rr	cm.rfdd
	Manston ...	cd.d.f.cm	cmm.	bccir.	crrodd
2	Shoeburyness ...	om.mo	m.id.mo	o.mbc	bccRRc
	Felixstowe ...	cmofmd	oid.mom	pm.bcc	corro
	Gorleston ...	offmid.	od.fcz.	coz.	oz.rrr
	Mildenhall ...	offe	mid.cm	cmcid.m	cid.crr
	Cranwell ...	d.d.ofefe	ofefe	om.	or.rrm
3	Birmingham ...	olr	cm	corr	r.o
	Upper Heyford	cmm.c	ccm.	cm.crr	rrrcrcbc
4	Ross-on-Wye	ocbcc	bccz.	orrr.r	oc
5	Hartland Point	cid.bc	r.r.r	r.r.ir.o	m.oc
	Bristol ...	cbc	bccp.c	crRR	crir.bc
	Portland Bill ...	c	c	oR	oR
	Plymouth ...	cm.bcm	crrm.q	rrqbcm	cmqcm
	The Lizard ...	cbcc	cprrr	rrmbc	bc
	Scilly (St. Mary's)	bcc	r.r.dro	or.b	bbccw
	Guernsey ...	cprbc	c.or	orrir	oc
6	Pembroke ...	c	crro	oir.fcbcm	bcm.c
7	Holyhead ...	c.bc	bcc	irrrc	ird.d.c
	Chester (Sealand)	cm.	cm.m	cfrrm.	cbm.
8	Manchester ...	r.ffidmdd	fcmm.mf	cfm.rr	crm.
10	Spurn Head ...	ff	ffw	ffmw	Rro
	Catterick ...	ff.om	omidof	cmoF	frmir
	Tynemouth ...	offr.r	off	off	offrr
11	St. Abbs Head ...	ffe	ffe	ffe	Ferr
	Leuchars ...	o.r.d.d.f	offeom	omom.	om.r.m
12	Renfrew (Abbotsinch)	r.r.d.d.o	cffm.	cm.irid.	orrm
	Eskdalemuir ...	ocid.c	cod.d.	om.	orrdd
	Point of Ayre ...	c	c	crrrr	rrcbc
13A	Tiree ...	cid.c	cid.	coird	orrc
13B	Stornoway ...	c	c	crr	crr
15	Dalwhinnie ...	c	cm	*	cfir
	Aberdeen ...	o.r.d.m	offdd	ofd.m.	om.
	Wick ...	cirpr	cm.	id.m.	id.m.
16	Lerwick ...	bcc	cir.q	cir.q	cir.q
17	Blacksod Point	o	prc	prcq	prc
18	Malin Head ...	cbcc	cbcc	cr.rcir.c	cpr.bc
	Aldergrove ...	cid.m.	cm.	rrRr.r.c	rrr.r.cb
19	Birr Castle ...	c	cir	circ	cbc
20	Valentia Obsy. †	irr.r.r	rrr.r.ddc	cbcb	bbccd.c
	Roches Point	bcc	rrdo	ocbc	cid.bc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s., slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s./k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height). ⚡ gale.
⊕, Solar halo. ☾ lunar halo. ⌒ Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9+" signifies an overcast sky with a few small openings.

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. „ wet.
2 .. „ flooded.
3 .. „ frozen hard and dry.
4 .. „ partly covered with snow or hail.
5 .. „ covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. „ covered with snow, less than 6 ins., deep but ground not frozen.
8 .. „ covered with snow, less than 6 ins., but ground frozen
9 .. „ covered with snow greater than 6 ins. deep.

NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

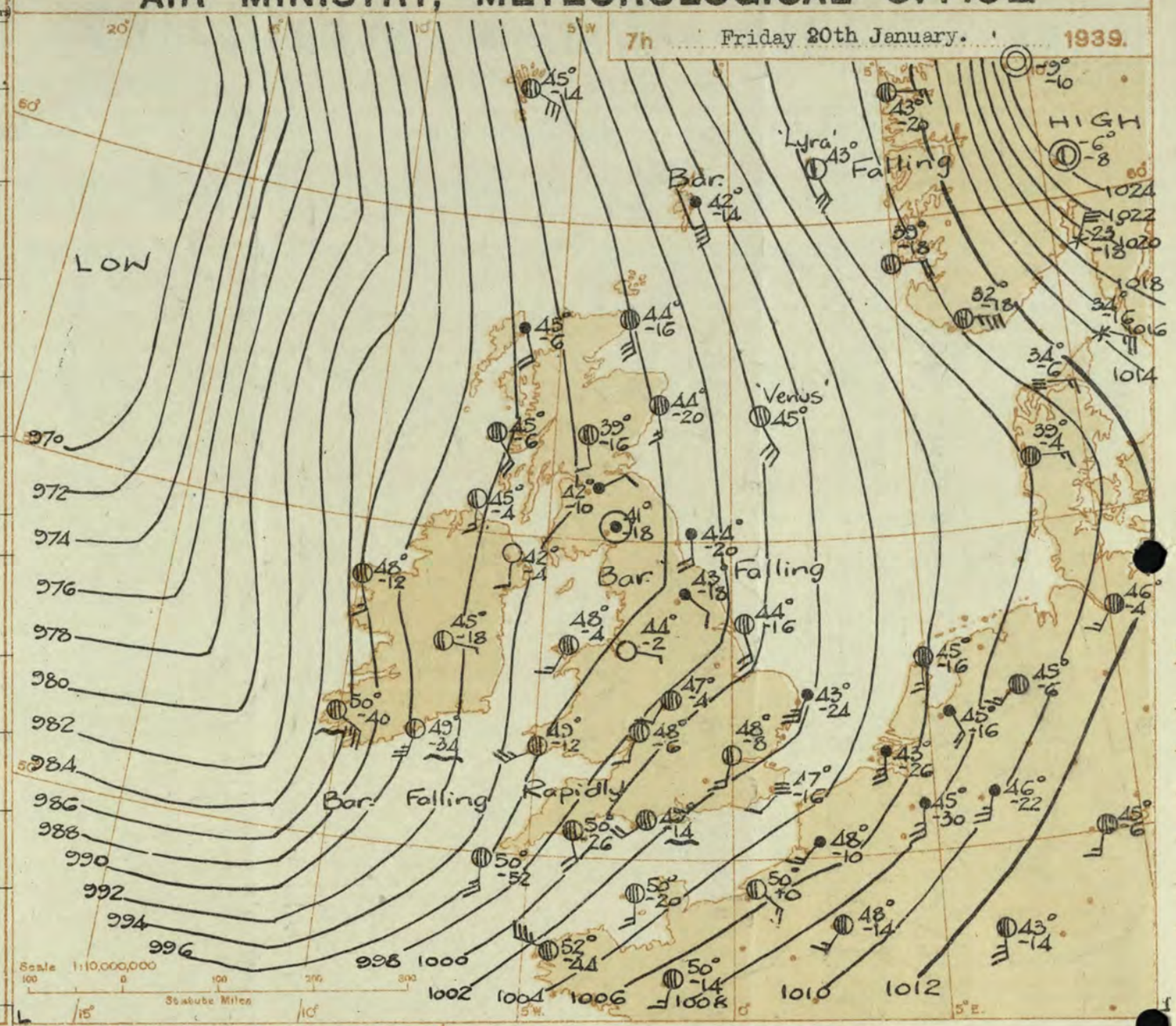
† Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 19th January, 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F.) Min. 9h. 18th to 9h. 19th	Temperature. (°F.) Max. 9h.—17h. 19th	Rainfall. (mm.) Night. 17h. 18th to 9h. 19th	Rainfall. (mm.) Day. 9h.—17h. 19th	Sunshine (hrs) Sunrise to Sunset. 19th
1	Tunbridge W.	od,oc	co	46	49	2	Trace	0.1
	Bournemouth	b	bcc	47	51	Trace	—	3.8
	Ventnor ...	ocb	bo	46	50	—	—	4.4
	Southsea ...	cb	bc	47	51	0.2	—	3.1
	Bognor Regis	ocbc	bccbc	48	50	0.3	—	1.6
	Littlehampton	cbc	bcc	47	51	0.5	—	2.6
	Worthing ...	cbcb	bcc	47	51	1	—	1.6
	Brighton ...	c	cbc	47	50	1	—	0.3
	Eastbourne† ...	ocbcc	coc	47	50	3	—	1.2
	Hastings† ...	omoc	oc	46	49	2	—	0.1
	Folkestone ..	m,odo	oco	46	51	3	Trace	0.1
	Dover ...	o	o	47	52	3	—	0.0
	Deal	o	o	47	50	2	—	0.0
	Ramsgate ...	od.	ocom	47	50	2	Trace	0.2
	Margate ...	cd.	c	46	49	3	Trace	0.0
2	Southend ...	om	ocomd	45	49	2	Trace	0.0
	Clacton-on-Sea	ocom	ocom	43	49	1	—	0.0
	Dovercourt ...	docf	oc	44	48	0.5	—	0.0
	Lowestoft ...	of	ir	44	47	2	1	0.0
	Skegness ...	ff	ffoc	41	47	—	—	0.0
	Mablethorpe...	off	ofom	40	46	2	Trace	0.0
	Cleethorpes....	of	of	42	*	Trace	—	0.0
3	Leamington S.	o	o	47	48	2	—	0.0
4	Cheltenham†	oc	oco	45	49	3	—	0.5
5	Bath	cbcb	bbcc	46	50	2	—	3.6
	Weymouth ...	b	bcc	46	52	—	—	4.4
	Jersey ...	rbc	bc	49	54	0.5	—	2.6
	Torquay ...	bc	bcco	46	53	—	—	2.9
	Falmouth	orcbo	bgrro	47	51	1	2	2.2
	Penzance ...	cbcc	crr	48	52	—	5	1.1
	St. Ives ...							
	Bude... ...	ocbc	cf.	46	51	—	1	1.3
	Ilfracombe ...	oco	cbcco	42	50	—	—	2.0
6	Aberystwyth	prc	c	43	49	1	—	0.2
7	Llandudno ...	cbc	bbcc	44	47	2	—	2.5
	Colwyn Bay...	cbc	bcc	44	50	0.3	—	2.4
	Rhyl	cm.	cbcc	44	48	Trace	—	0.2
8	Wallasey ...	o	c	43	45	2	—	0.0
	Southport ...	ompc	czcoz	43	46	Trace	Trace	0.0
	Blackpool ...	cfof	ocmom	42	46	—	—	0.0
	Morecambe ...	bcf	c	43	46	2	1	0.0
9	Ilkley... ...	o	o	43	46	2	—	0.0
	Harrogate ...	ofm	omo	42	45	0.5	—	0.0
10	Berwick-on-T.	offe	ffo	41	44	5	0.2	0.0
11	Dunbar ...	orm	cm.	41	45	10	0.3	0.0
12	Troon... ...	opopo	pocpo	40	46	0.3	1	0.0
	Douglas ...	cprm.	cm.	42	47	Trace	—	1.0

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.



Barometer. Isobars are drawn for intervals of two millibars.
Wind, Weather Symbols. For explanation see opposite page.
Sea Disturbance. Rough. High.
Barometric Change from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 20th January, 1939.

Districts.	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ...	South or southwest winds, fresh or strong at first, a gale in exposed places, moderating; occasional squally rain perhaps with local thunder, fairer later; rather mild.
8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland	Fresh southerly winds, strong or a gale locally, moderating slowly; occasional showers but some bright periods; rather mild.
15 N. E. Scotland 16 Orkney and Shetland	Strong southerly winds, a gale at times, moderating later; occasional rain, becoming fairer later; rather mild.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Fresh southwest winds; occasional showers but some bright periods; average temperature.

GENERAL INFERENCE.

A deep depression is centred near Iceland and a secondary west of Ireland will move northeast. there will be rain at first in many districts but fairer conditions will spread from the West. It will be generally rather mild.

FURTHER OUTLOOK.

Unsettled probably with further rain spreading from West.

Times of issue of Gale Warnings.

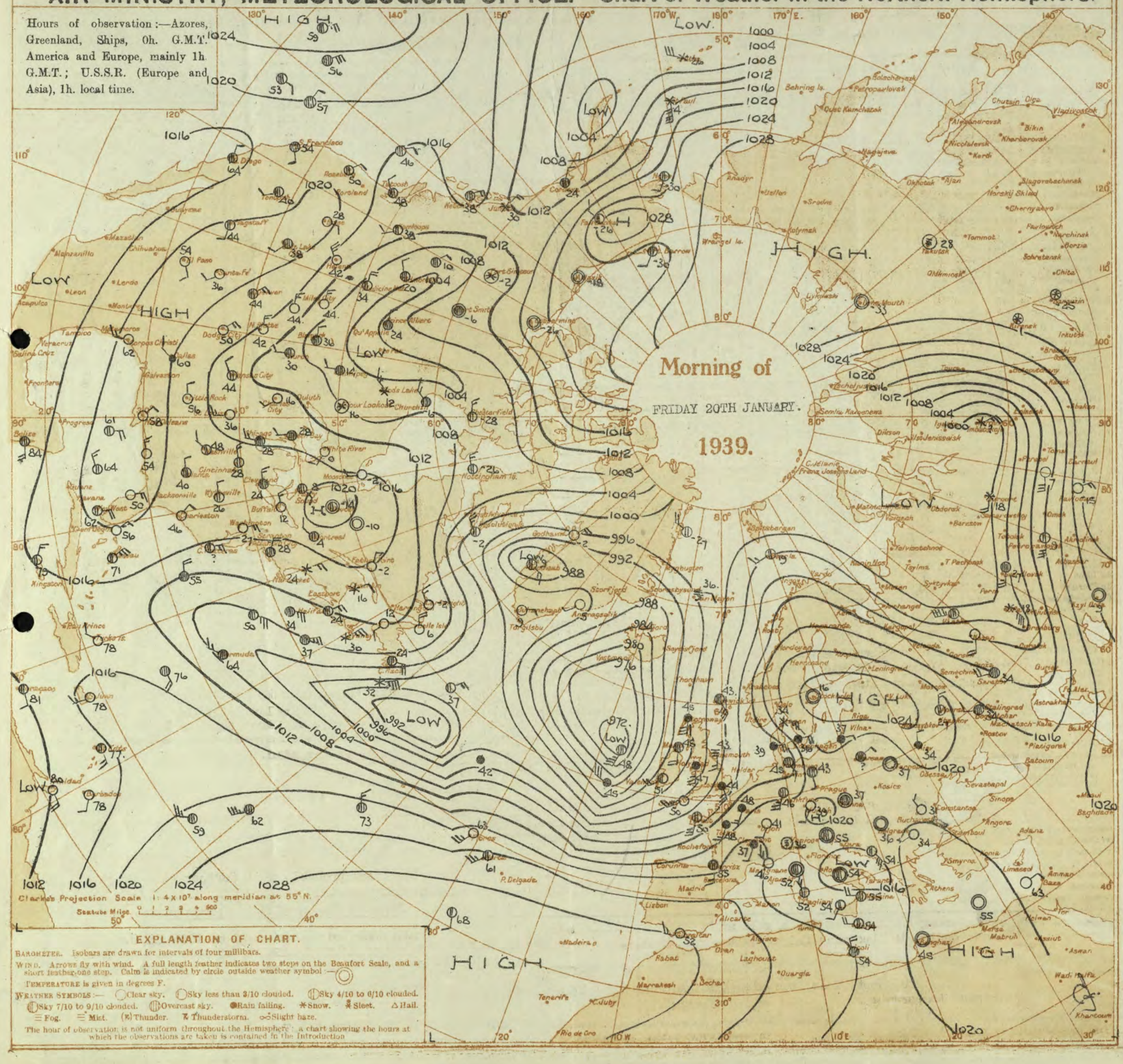
South cone hoisted at 1045 on 19th in districts 6,7,8,12,13,17,18,19,20; at 1440 on 19th in districts 5,15,16; and at 0840 on 20th in districts 1,2, and 10.

Forecasts issued at 1000 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S
Director.

H.M. Stationery Office Press, Kingsway, W.C.2.

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 20th January, 1939.
No. 28183

OBSERVATIONS at 1 hr. G.M.T. 20th January

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1005·5	-32	SSE	5	rr	44	85	7	6	-	-	9+	10	1500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1008·8	-18	SSW	4	rr	44	92	6	6	-	-	10	10	800
	Manston ...	154	1007·5	-22	S	4	ir.	47	92	6	6	-	-	10	10	800
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1006·8	-10	SW'S	3	o	44	92	5	5	-	-	10	10	1500
	Mildenhall ...	19	1005·1	-20	S'E	3	rr	46	92	5	6	2	-	9+	10	1500
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	999·8	-2	SW	6	o	49	97	7	5	-	-	10	10	1500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1002·2	-24	SW	5	rr	50	92	7	5	-	-	10	10	1500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1003·1	-4	WSW	5	bc	51	97	7	8	-	-	4·6	4·6	2500
	Scilly (St. Mary's)	163	1002·0	-2	WSW	5	b	50	97	6	-	-	-	0	0	-
	Guernsey ..	175	1004·3	-18	SW	4	o/r	52	97	7	5	-	-	10	10	2500
6	Pembroke ...	142	999·9	-8	W	5	bcq	50	97	6	5	-	-	4·6	4·6	1500
7	Holyhead ...	26	996·0	-28	S	5	ir.	47	97	7	6	2	-	7·8	10	450
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1003·4	-16	S'E	3	o	43	97	5	5	-	-	10	10	800
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1001·1	-20	S	3	of	43	97	3	5	-	-	10	10	800
11	St Abbs Head ..	280	999·9	-24	SSE	3	f-	43	97	3	-	-	-	10	10	<150
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotsl.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	997·1	-26	SSE	5	rr	44	97	7	-	2	-	10	10	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	995·7	-18	SSE	6	rr	45	85	6	5	2	-	7·8	10	2500
15	Dalwhinnie ..	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	999·9	-20	SSE	7	id.	44	97	5	5	-	-	10	10	450
16	Lerwick ...	156	1003·1	-22	SSE	8	c/r	43	92	7	9	2	-	4·6	10	800
17	Blacksod Point	18	991·7	0	S	4	bc	49	92	7	9	-	-	4·6	4·6	1500
18	Malin Head ...	84	991·9	-24	S	4	cjp	45	97	6	9	-	-	7·8	7·8	2500
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	993·4	-6	SW	4	bc	51	97	8	5	-	-	2·3	2·3	2500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 20th January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1001·2	-10	SSW	2	z.	48	92	6	5	-	-	9	9	2500	1	*
Croydon ...	1002·0	-8	S'W	3	z.	48	92	6	5	-	-	2·3	2·3	1500	1	*
S. Farnborough	1001·3	-6	SSW	3	c	45	92	6	5	-	-	7·8	7·8	1500	2	*
Boscombe Down	1001·1	-8	S	3	c	45	97	7	5	2	6	2·3	9	2500	1	*
Calshot (Sthmtn.)	1003·2	-6	WSW	3	c	49	97	6	5	-	-	10	10	1500	1	2
Lympne ...	1003·7	-16	SW	2	f	47	97	2	-	-	-	10	10	<150	1	§1
Manston ...	1002·4	-24	SW'S	2	o/d	47	97	6	5	-	-	10	10	450	1	*
Shoeburyness ...	1002·1	-14	SSW	3	c	47	97	7	5	2	-	7·8	10	1500	1	*
Felixstowe ...	1001·8	-22	S'E	5	o	44	97	7	5	-	-	10	10	800	1	3
Gorleston ...	1001·9	-24	SSW	5	r.r.	43	97	6	6	-	-	10	10	1500	1	3
Mildenhall ...	1000·2	-14	S	3	z.	47	97	6	6	7	-	4·6	9	1500	1	*
Cranwell ...	999·0	-16	SSW	2	z.	45	97	5	5	-	-	10	10	800	1	*
Birmingham ...	999·4	-4	SSW	2	o	47	97	7	5	-	-	10	10	1500	1	*
Upper Heyford	1000·6	-8	SW'S	3	z.	47	97	6	5	2	-	9+	10	1500	1	*
Ross-on-Wye	998·8	-6	S'W	2	bc	48	85	6	5	-	-	4·6	4·6	1500	1	*
Hartland Point	996·8	-20	SW	6	c	50	92	7	5	-	-	7·8	7·8	1500	1	4
Bristol ...	1000·2	-16	S'W	3	bc	49	92	6	5	-	1	4·6	4·6	1500	1	*
Portland Bill ...	1001·7	-14	SW	4	c	49	92	7	5	-	-	7·8	7·8	1500	1	4
Plymouth ...	999·3	-26	S'E	4	z.	50	97	6	5	-	-	9+	9+	800	1	3
The Lizard ...	997·5	-40	S'W	4	bc	50	97	7	8	6	-	4·6	4·6	2500	1	2
Scilly (St. Mary's)	994·8	-52	S	5	c	50	97	6	5	1	7	2·3	10	1500	1	3
Guernsey ..	1002·8	-20	S	3	c	50	92	7	5	1	-	4·6	7·8	2500	1	3
Pembroke ...	996·0	-12	SW	5	c	49	97	5	5	-	-	9	9	1500	1	3
Holyhead ...	995·2	-4	SW'S	3	c/d	48	97	6	5	1	-	7·8	9+	800	1	3
Chester (Sealand)	997·0	-2	E'S	1	z.	44	92	6	-	-	-	0	0	-	1	*
Manchester ...	997·4	-10	S'E	2	z.	45	92	6	-	3	-	0	2·3	-	1	*
Spurn Head ...	998·3	-16	S'E	4	o/r	44	97	6	5	-	-	10	10	1500	2	3
Catterick ...	996·6	-18	SE	2	ir.	43	97	4	5	-	-	10	10	220	1	*
Tynemouth ...	996·5	-20	S	4	rr	44	92	7	-	2	-	10	10	800	1	2
St Abbs Head ..	995·4	-12	SSE	3	rr	41	97	4	3	2	-	7·8	10	800	1	3
Leuchars ...	995·4	-18	SE	1	r.r.	43	97	5	-	2	-	10	10	800	1	*
Renfrew (Abbotsl.)	994·4	-10	ENE	2	rr	42	97	5	-	2	-	10	10	1500	1	*
Eskdalemuir ...	994·8	-18	-	0	dd	41	92	6	-	2	-	10	10	450	1	*
Point of Ayre ...	994·6	-2	SW'W	2	bc	45	97	8	5	-	-	4·6	4·6	1500	1	2
Tiree	991·0	-6	SE'S	4	c	45	97	7	5	-	-	7·8	7·8	1500	1	*
Stornoway ...	992·9	-6	SSE	4	rr	45	85	6	5	2	-	9	10	2500	1	2
Dalwhinnie ..	995·0	-16	S	2	c	39	92	5	5	-	-	10	10	1500	1	*
Aberdeen ...	996·1	-20	SSE	3	o	44	97	5	-	2	-	10	10	800	1	3
Wick ...	995·5	-16	SSE	6	o	44	97	5	5	-	-	10	10	450	1	3
Lerwick ...	1000·4	-14	SSE	8	ir.	42	92	6	6	2	-	4·6	10	800	1	*
Blacksod Point	989·8	-12	SSE	3	c	48	92	7	9	-	-	9	9	1500	1	3
Malin Head ...	991·1	-4	S	3	bc	45	92	7	4	-	-	4·6	4·6	4000	1	2
Aldergrove ...	993·3	-4	S'W	2	b	42	97	7	-	-	-	0	0	-	1	*
Birr Castle ...	991·0	-18	ESE	1	bc	45	97	8	8	7	-	4·6	4·6	2500	1	*
Valentia Obsy. †	986·0	-40	SE'S	5	c	50	85	6	8	-	-	9	9	1500	1	4
Roches Point	990·1	-34	SSW	5	bc	49	97	8	5	-	-	4·6	4·6	1500	1	4

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 19th Hrs. (36)
London (Kew)	49	44	43	—	5	0·1
Croydon ...	48	43	43	1	5	0·0
S. Farnborough	49	44	42	Tr	6	0·1
Boscombe Down	50	43	41	0·1	6	2·7
Calshot (Sthmtn.)	51	46	44	—	7	2·9
Lympne ...	48	43	38	0·1	7	0·0
Manston ...	50	44	42	0·1	6	0·2
Shoeburyness ...	50	44	41	0·2	6	0·0
Felixstowe ...	48	42	42	Tr	5	0·0
Gorleston ...	47	43	41	0·1	4	0·0
Mildenhall ...	48	44	43	0·1	6	0·0
Cranwell ...	46	43	41	0·1	5	0·0
Birmingham ...	47	43	40	0·1	4	0·0
Upper Heyford	48	47	40	—	7	*
Ross-on-Wye	51	45	43	—	3	1·1
Hartland Point	49	46	45	0·4	7	2·3
Bristol ...	49	45	43	Tr	6	3·5
Portland Bill ...	50	45	*	—	6	*
Plymouth ...	51	48	47	1	8	2·1
The Lizard ...	51	49	*	5	6	1·8
Scilly (St. Mary's)	51	50	*	3	5	0·6
Guernsey ..	53	48	46	0·1	9	2·9
Pembroke ...	49	45	*	1	10	1·4
Holyhead ...	48	45	44	—	3	1·9
Chester (Sealand)	47	44	37	—	4	0·0
Manchester ...	46	44	39	0·2	5	0·0
Spurn Head ...	45	42	*	Tr	4	0·0
Catterick ...	45	41	40	0·1	4	0·0
Tynemouth ...	45	43	41	2	4	0·0
St Abbs Head ..	44	40	*	1	3	*
Leuchars ...	44	42	41	0·6	1	0·0
Renfrew (Abbotsl.)	46	42	40	1	8	0·0
Eskdalemuir ...	45	39	39	Tr	5	0·0
Point of Ayre ...	48	43	*	—	5	0·5
Tiree	45	43	42	Tr	5	0·0
Stornoway ...	46	45	*	—	4	0·0
Dalwhinnie ..	42	37	35	—	2	0·3
Aberdeen ...	44	43	43	2	0·2	0·0
Wick ...	45	44	*	0·3	0·1	*
Lerwick ...	43	41	*	0·1	0·2	0·0
Blacksod Point	50	37	*	2	1	*
Malin Head ...	46	41	*	0·3	1	1·4
Aldergrove ...	47	42	37	Tr	6	1·0
Birr Castle ...	46	42	31	1	2	0·3
Valentia Obsy. †	54	49	44	9	0·1	0·0
Roches Point	50	48	*	6	0·2	*

LONDON OBSERVATIONS

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except for rainfall which is 9h—18h.

	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h)	Weather Afternoon (24 hrs. ended 9h)	Weather Night (24 hrs. ended 9h)	Temperature Day Max. °F.	Temperature Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T % (Yesterday)	Humidity 9h. G.M.T % (To-day)	Visibility 9h. (To-day)
Kew ...	18	cmomom	ch.	crrrcm	49	44	43	-	5	0·1	•	•	6
Croydon ...	217	r.d.fmm	cm.	cmrrrr	48	43	43	1	5	0·0	•	••	6
Greenwich (Royal Observatory) ...	149	cm	cm	crrcm	50	44	41	-	5	0·0	85	93	5
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*	0·0	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	50	46	43	5		0·0	85	89	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	50	44	43	Tr	5	0·0	85	93	*
Camden Square ...	110	c	o	*	50	45	43	-	5	*	*	90	*
Kensington ...	80	c	c	*	50	45	42	Tr	5	0·0	At 18h. 79	92	*
Hampstead Observatory ...	450	od	o	or	47	43	41	0·1	6	0·0	*	97	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 20th	Max.	Time.	Min.	Time.
South Kensington.	0·3	17-19h 19th	<0·3	1-4h 20th
Kew Observatory.	0·4	7h. 19th	<0·1	0-6h 20th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 19th January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 20th January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris ...	1016·1	WSW	4	c	50	1008·5	SW	3	c/r	48	52	46	Tr	6
Brussels ...	1011·1	WSW	4	z.	46	1006·9	S	5	ir.	45	48	45	4	2
Berlin ...	1014·4	SSE	2	c	48	1014·9	*	*	z.	45	54	39	Tr	Tr
Zürich ...	1020·7	SW	1	c	45	1019·5	ESE	2	m	36	50	34	0·2	-
Rome ...	1014·6	S	2	c	55						*	*	-	

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	<1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	> 75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 3, 22 — Code for surface visibility.

		Objects not visible at
0	Dense fog	55 yards.
1	Thick fog	220 ,,
2	Fog	550 ,,
3	Moderate fog	1,100 ,,
4	Mist or haze	1½ miles.
5	Poor visibility	2½ ,,
6	Moderate ,,	6½ ,,
7	Good ,,	12½ ,,
8	Very good ,,	31 ,,
9	Excellent ,,	beyond 31m.

COLUMN 30.—Code for State of Sea.

0	Calm.	5	Very rough.
1	Smooth.	6	High.
2	Slight.	7	Very high.
3	Moderate.	8	Precipitous.
4	Rough.	9	Confused.

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY, LONDON, W.C.2.

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 21st January, 1939.
No. 28184

OBSERVATIONS at 13h. G.M.T. 20th January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0-12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Amount Low 0-10 (12)	Amount Total 0-10 (13)	Height of Base (feet) (14)
1	London (Kew)	999.0	-24	SSE	3	zo	52	85	6	5	3	–	9	9+	800
	Croydon	1000.0	-20	SE	3	c/r	51	92	6	6	3	–	7-8	9+	1500
	S. Farnborough	998.1	-30	SSE	3	ro	50	92	6	6	–	–	10	10	800
	Boscombe Down	996.5	-34	SE	5	rr	49	97	6	6	2	–	9+	10	450
	Calshot (Sthmtn.)	998.9	-34	SSE	5	c/pr	49	85	6	5	7	–	9+	10	1500
	Lympne	1002.9	-14	S	3	zo	49	97	6	5	3	–	4-6	7-8	450
	Manston	1002.0	-10	SW	4	c/r	50	92	6	5	–	–	9+	9+	1500
2	Shoeburyness	1001.2	-16	S	3	c	51	85	6	5	7	–	7-8	9	1500
	Felixstowe	1001.3	-6	SSW	3	b	50	85	7	5	8	–	1	1	2500
	Gorleston	1001.0	-2	SW/S	3	c	51	92	6	5	–	–	9+	9+	2500
	Mildenhall	999.6	-8	S	3	zo	53	75	6	–	–	2	0	2-3	–
	Cranwell	998.0	-12	SW	3	zo	51	85	6	5	–	–	2-3	2-3	1500
3	Birmingham	997.2	-16	SSE	2	c	49	85	6	5	–	–	10	10	1500
	Upper Heyford	998.1	-24	SSE	3	c/pr	49	92	6	5	7	–	7-8	9	800
4	Ross-on-Wye	995.8	-26	SE	2	zo	50	85	6	5	–	–	9+	9+	1500
5	Hartland Point	991.9	-24	WSW	6	c/r	47	92	8	6	2	3	1	9+	800
	Bristol	995.7	-30	SSE	3	ir	51	85	6	6	2	–	4-6	10	800
	Portland Bill	995.5	[illegible]	SW	5	c	49	92	7	5	–	–	10	10	1500
	Plymouth	994.8	-10	SW/W	3	c	49	85	7	5	7	–	4-6	9+	2500
	The Lizard	993.6	-20	SW/S	4	c	51	92	7	8	6	–	4-6	7-8	2500
	Scilly (St. Mary's)	990.8	-24	S	4	rr	48	92	6	9	2	–	7-8	10	800
	Guernsey	996.0	-18	SW	3	c	48	85	7	5	–	–	9+	9+	2500
6	Pembroke	991.2	-22	SW	4	c	47	92	7	8	7	–	7-8	9+	1500
7	Holyhead	993.1	-18	SSE	4	bc	51	85	7	8	8	4	1	2-3	4000
	Chester (Sealand)	995.4	-18	SE/E	3	zo	52	85	6	5	4	–	4-6	4-6	1500
8	Manchester	996.0	-14	SSE	3	zo	49	85	5	5	7	–	4-6	10	5700
10	Spurn Head	998.6	0	SSW	2	c	46	97	6	5	2	–	7-8	10	1500
	Catterick	997.0	+2	SE	2	F+	44	97	1	–	–	–	10	10	<150
	Tynemouth	996.7	+4	SSW	2	m	48	85	4	2	3	–	4-6	7-8	2500
11	St. Abbs Head	995.3	+10	W	4	c	45	85	7	8	4	–	4-6	7-8	1500
	Leuchars	995.1	+2	W	1	zo	45	92	6	5	7	–	7-8	9	1500
12	Renfrew (Abbots I.)	994.8	-2	ENE	1	cf	44	97	3	5	3	–	7-8	9+	1500
	Eskdalemuir	994.3	-2	SW/S	3	d	44	97	5	5	–	–	10	10	450
	Point of Ayre	994.1	-4	SSE	4	bc	47	92	6	5	–	9	2-3	2-3	1500
13A	Tiree	991.7	0	SE	4	c	47	97	7	5	–	–	7-8	7-8	1500
13B	Stornoway	992.8	0	SSE	4	c	46	85	8	5	7	–	4-6	9+	2500
15	Dalwhinnie	995.2	-2	S	2	c	41	85	7	4	6	1	2-3	7-8	2500
	Aberdeen	994.6	-10	S	2	m	44	97	4	6	3	–	9+	9+	800
	Wick	994.4	-8	SSE	6	roro	44	97	6	5	2	–	9	10	800
16	Lerwick	998.1	-14	SSE	8	ir	43	92	6	6	2	–	4-6	10	800
17	Blacksod Point	989.2	0	SSE	3	c	48	92	7	–	–	9	0	7-8	–
18	Malin Head	991.1	-4	S	3	c	46	85	6	5	–	5	2-3	7-8	2500
	Aldergrove	992.1	-8	SE	3	zo	50	85	6	5	3	–	4-6	4-6	1500
19	Birr Castle	988.7	-8	ESE	1	c	50	85	8	6	7	–	7-8	9	1500
20	Valentia Obsy. †	989.2	+22	S	4	bc	51	85	8	8	–	–	4-6	4-6	1500
	Roches Point	989.8	+10	SW	3	bc	50	85	8	5	–	5	1	4.6	1500

OBSERVATIONS at 18h. G.M.T. 20th January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0-12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Amount Low 0-10 (26)	Amount Total 0-10 (27)	Height of Base (feet) (28)	State of Ground 0-9 (29)	Sea 0-9 (30)
London (Kew)	997.3	-2	SW	2	roro	48	92	6	5	–	–	10	10	1500	1	*
Croydon	997.9	-10	SW	3	roro	47	92	6	–	2	–	10	10	4000	1	*
S. Farnborough	997.0	+2	S	3	zo	46	92	6	6	2	–	10	10	4000	1	*
Boscombe Down	996.3	+8	SSE	2	c	45	97	7	5	2	–	7-8	10	1500	1	*
Calshot (Sthmtn.)	997.7	0	SE	4	F	47	92	7	5	2	–	7-8	10	1500	1	2
Lympne	999.2	-10	SW	4	roro	45	97	5	6	2	–	9+	10	1500	1	§ 3
Manston	998.3	-24	SE/S	3	roro	48	92	6	6	2	–	7-8	10	4000	1	*
Shoeburyness	998.3	-12	S/E	4	roro	47	92	6	6	7	–	7-8	10	1500	1	*
Felixstowe	998.7	-18	SE	4	q/pr	47	97	6	5	–	+	10	10	1500	1	3
Gorleston	999.7	-4	SSE	3	c/pr	44	92	6	5	–	+	9+	9+	1500	1	3
Mildenhall	997.2	-6	SE	4	bc/d	49	92	7	5	3	+	4-6	4-6	1500	1	*
Cranwell	996.8	-10	SE/E	3	ido	47	97	5	5	–	–	10	10	1500	1	*
Birmingham	995.3	-4	SSE	3	c/r	48	92	6	5	–	–	9+	9+	800	1	*
Upper Heyford	996.4	+2	SSE	3	c	46	92	7	6	7	–	7-8	9+	800	1	*
Ross-on-Wye	995.2	+10	W	1	bc	45	85	7	5	–	–	2-3	2-3	1500	1	*
Hartland Point	994.3	+18	S	3	c	47	92	8	8	–	–	7-8	7-8	1500	1	3
Bristol	995.3	+10	S	2	bc	45	85	7	5	7	–	2-3	4-6	1500	1	*
Portland Bill	994.4	-10	S	3	o	48	92	7	5	–	–	10	10	1500	1	5
Plymouth	993.8	+4	N	2	c/f	48	97	6	6	2	–	9	10	450	1	3
The Lizard	995.3	+40	NW/W	4	c	48	97	7	8	2	–	7-8	9+	1500	1	3
Scilly (St. Mary's)	995.6	+60	WNW	6	c	49	92	7	8	6	–	7-8	9+	1500	1	4
Guernsey	994.1	-26	SW	5	rr	50	92	6	5	–	–	10	10	1500	1	4
Pembroke	994.2	+20	WSW	2	bc	47	85	7	5	4	–	2-3	4-6	1500	1	3
Holyhead	992.6	+6	ESE	3	c	47	85	7	5	9	–	4-6	9+	2500	1	1
Chester (Sealand)	994.5	-2	E/S	2	ro	48	85	4	–	2	–	0	10	–	1	*
Manchester	995.2	-2	ESE	3	c/f	47	85	5	5	3	–	4-6	9+	2500	1	*
Spurn Head	997.4	-4	SE/E	3	c	43	97	6	5	–	–	10	10	1500	1	2
Catterick	996.6	+2	S	1	f+	45	97	2	–	–	–	10	10	<150	1	*
Tynemouth	996.7	+6	S	2	c/f	44	92	5	5	–	–	7-8	7-8	2500	1	2
St. Abbs Head	996.0	0	S	2	bc	44	92	6	2	4	–	2-3	4-6	2500	0	2
Leuchars	995.7	+6	–	0	cf	40	97	3	5	3	–	7-8	9+	2500	1	*
Renfrew (Abbots I.)	994.6	0	E/S	1	cf+	46	92	3	5	–	+	10	10	2500	1	*
Eskdalemuir	994.7	+2	NNW	2	[illegible]	39	97	4	5	–	–	2-3	2-3	450	1	*
Point of Ayre	994.0	-2	SSW	3	b	44	97	6	–	4	–	0	1	–	1	1
Tiree	991.0	0	SE/S	4	bc	46	97	7	5	–	–	4-6	4-6	2500	0	3
Stornoway	992.6	0	S	3	c	46	85	7	5	7	–	7-8	10	2500	1	2
Dalwhinnie	*	-2	S	3	bc	38	85	7	4	4	1	2-3	4-6	2500	0	*
Aberdeen	995.6	+6	S	1	bc	40	92	5	5	–	–	2-3	2-3	2500	1	3
Wick	993.0	-2	SSW	3	c	42	97	6	5	1	–	4-6	7-8	1500	1	1
Lerwick	995.3	-10	SE	7	rr	44	92	6	6	2	–	4-6	10	800	1	*
Blacksod Point	989.3	0	S	4	bc	46	92	7	–	–	9	0	4-6	–	0	3
Malin Head	990.5	-6	S	3	bc	46	85	8	4	–	–	4-6	4-6	4000	1	3
Aldergrove	992.2	0	S/E	3	zo	46	92	6	5	–	–	4-6	4-6	1500	1	*
Birr Castle	991.4	+16	ESE	1	c	44	92	8	5	3	–	4-6	7-8	2500	1	*
Valentia Obsy. †	992.6	+26	WSW	4	c	50	85	7	5	1	–	7-8	10	800	1	6
Roches Point	993.3	+29	SW	3	c	47	97	8	5	–	5	2-3	7-8	800	1	5

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. 20th. (37)	13h.—18h. 20th. (38)	18h. 20th to 1h. 21st. (39)	1h.—7h. 21st. (40)
London (Kew)	cmprcm	cmprcro	circmo	cbccmw
Croydon	cmoroo,cm	crrorm	ciromoc	cmomf
S. Farnborough	bciRroc	iRroc	cidocm	cirorc
Boscombe Down	cirrrmo	crrirc	cdcdido	circrr
Calshot (Sthmtn.)	ciroprmo	CPRpro	crrobcb	bcRRrr
Lympne	omfbc	bccrorrm	bcrrcfdd	omdbcof
Manston	ocmoiro	crrmo	cqprmo	cirofmo
Shoeburyness	cbccmo	pProroc	rorocb	b,c
Felixstowe	o,bcmo	bcmcpro	cmrororo	c,cm
Gorleston	oroczo	czopro	cpr	cbcc
Mildenhall	cirobcmo	ciro,d,d,c	bcidocm	bcmcm
Cranwell	obmcbc	bccmopg	cidobmo	bmoff
Birmingham	oroc	ciro	c	co.
Upper Heyford	cmocpro	crmo	cbcmo	ccmo
Ross-on-Wye	bcmocm	cmopocm	bcc	corr
Hartland Point	crr	c	cbccocid	crorrr
Bristol	bccror	rocbc	bcbbcc	coRR
Portland Bill	opr	o	c	oR
Plymouth	cmorrc	crororoc	cmobcm	cRRoiro
The Lizard	rrcbc	bcprc	cbcpr	cprrr
Scilly (St. Mary's)	circrr	cir bcc	crorr	rrddmp
Guernsey	crRq	iRor	bcoiro	orR
Pembroke	cmobciroc	cirobc	bcc	crrRmc
Holyhead	promobc	bcc	c	rormoc
Chester (Sealand)	bbcmo	bccmrm	crombc	crrorm
Manchester	bcmofcm	cmobmbc	fcmdbc	bccmoro
Spurn Head	omcmo	czow	cmw	cFfw
Catterick	mrooF	off	fcmof	ofmw
Tynemouth	orrcm	cmff	cmbco	oc
St. Abbs Head	moc	cmobc	bcffe	ffirc
Leuchars	[illegible]	cfomff	cffFF	bcfidx
Renfrew (Abbots I.)	cfdofdc	cffmf	cffmo	cmoiro
Eskdalemuir	ododom	cmom	bcc	coiro
Point of Ayre	bc	bcb	bbcc	croro
Tiree	c	c	bcc	corrd
Stornoway	crrpro	cpro	c	cpr
Dalwhinnie	cir	c	*	ciro
Aberdeen	rorroc	cbcbz	bbccm	fefedo
Wick	moror	rocmpo	cmobc	bccbm
Lerwick	crorirq	cirrr	crrir	c
Blacksod Point	cbc	bc	c	proc
Malin Head	Fbcz,zc	cbc	bccpro	cprc
Aldergrove	b,cbmo	bcmo	bcmo	crrdd
Birr Castle	bcc	c	cir	cir
Valentia Obsy. †	iRrorocbc	bccprpc	cirorr	rrirocir
Roches Point	cirbc	bccw	cw	crr

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s₀, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain.
rr, continuous rain.
<, less than (for cloud height). gale.
⊕, Solar halo. lunar halo. Aurora.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus :—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As: Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. „ wet.
2 .. „ flooded.
3 .. „ frozen hard and dry.
4 .. „ partly covered with snow or hail.
5 .. „ covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. „ covered with snow, less than 6 ins., deep but ground not frozen.
8 .. „ covered with snow, less than 6 ins., but ground frozen
9 .. „ covered with snow greater than 6 ins. deep.

NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2*

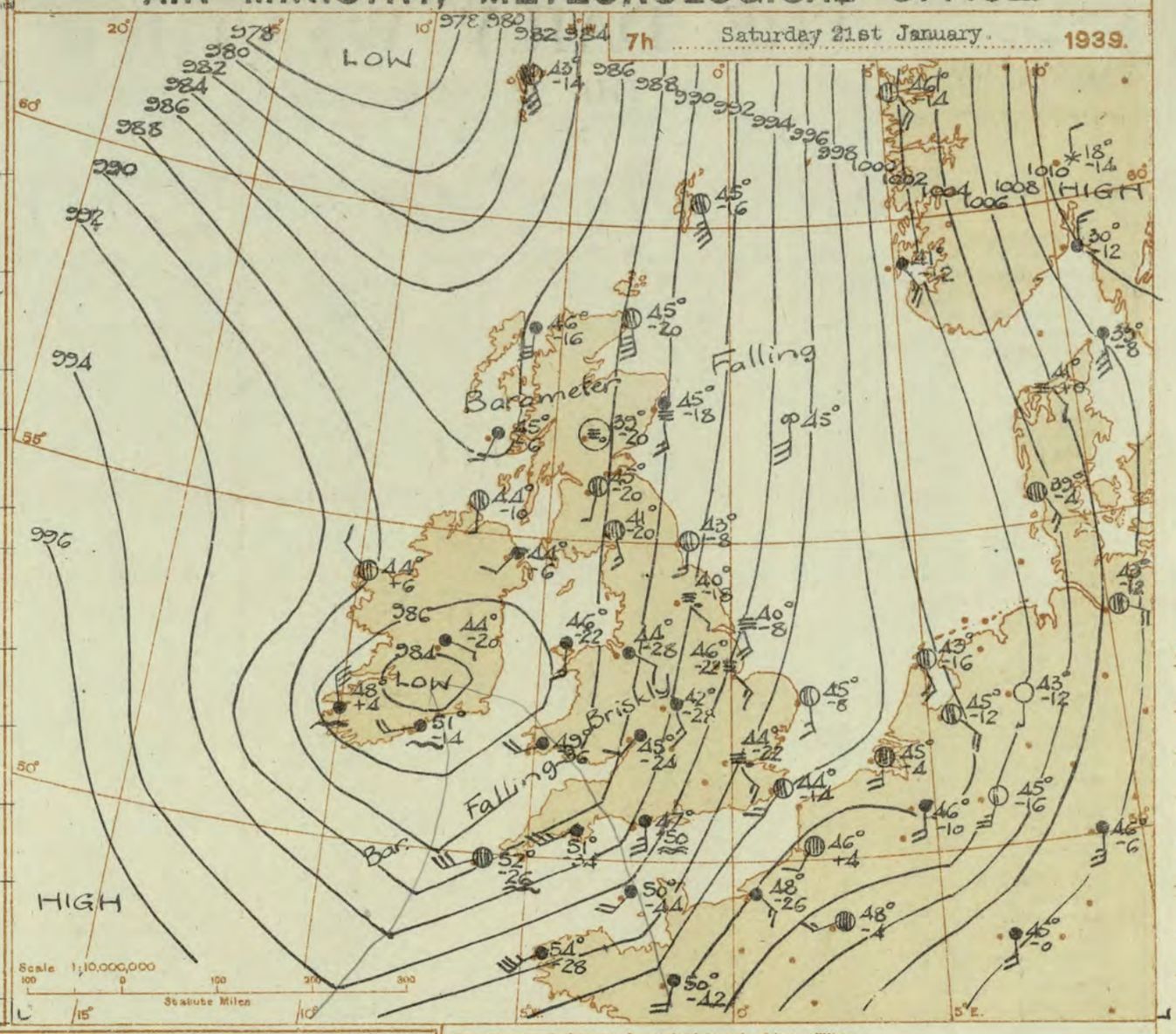
† See disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 20th January 1939

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F.) Min. 9h. 19th to 9h. 20th	Temperature. (°F.) Max. 9h.—17h. 20th	Rainfall. (mm.) Night. 17h. 19th to 9h. 20th	Rainfall. (mm.) Day. 9h.—17h. 20th	Sunshine (hrs.) Sunrise to Sunset 20th
1	Tunbridge W.	oro	oro	43	50	5	4	0.0
	Bournemouth	o.r	o	46	50	10	2	0.0
	Ventnor ...	rocpo	rou	45	49	7	4	0.1
	Southsea ...	oroc	oroc	46	50	6	5	0.0
	Bognor Regis	obcc	oRc	45	49	7	7	0.1
	Littlehampton	bcc	ccrc	46	50	7	4	0.0
	Worthing ...	c	cr	46	50	7	2	0.1
	Brighton ...	bcc	cd	45	49	7	3	0.0
	Eastbourne† ...	co	ocrr.	46	50	8	3	0.4
	Hastings† ...	omcoc	bccor	45	51	6	4	0.5
	Folkestone ...	mocbc	circo	45	51	7	2	0.8
	Dover ...	ocbcc	cor	45	51	6	2	0.4
	Deal	coc	bcor	45	51	4	0.5	1.8
	Ramsgate ...	pcp	per	45	51	6	0.3	2.2
	Margate ...	bc	bccr	45	53	8	0.5	2.4
2	Southend ...	bcc	cor	43	50	6	2	1.5
	Clacton-on-Sea	cbc	bccpc	42	48	6	0.2	2.6
	Dovercourt ...	rbc	bcc	43	51	5	—	2.7
	Lowestoft ...	ofir	bczcf	43	51	5	0.2	1.7
	Skegness ...	dco	c	41	47	4	—	0.0
	Mablethorpe...	o	cm.	41	51	4	—	0.2
	Cleethorpes ...	cbc	bc	42	50	6	—	0.1
3	Leamington S.	zc	cod	44	51	7	0.1	0.4
4	Cheltenham†	cm.bc	circo	43	51	3	0.5	2.4
5	Bath	c	pcbc	46	52	4	0.5	0.1
	Weymouth ...	mpc	c	47	51	11	1	0.0
	Jersey ...	rrc	cr	48	51	10	6	0.6
	Torquay ...	corpqc	bccp.	47	52	7	2	1.0
	Falmouth	ognrc	corro	47	51	10	7	1.6
	Penzance ...	rrcbc	circ	47	52	11	2	1.4
	St. Ives ...							
	Bude... ...	orp	cm	48	51	6	2	0.5
	Ilfracombe ...	rrcbc	crac	46	52	9	2	1.4
6	Aberystwyth	prcbc	bcc	45	52	5	—	2.8
7	Llandudno ...	crcbc	bbc	43	54	2	0.1	2.9
	Colwyn Bay...	cbcb	bbc	44	55	3	—	2.5
	Rhyl	cbc	bcc	44	53	2	—	2.8
8	Wallasey ...	mbc	bcc	43	50	5	—	2.2
	Southport ...	bcfbc	bbcbz	41	52	4	—	2.7
	Blackpool ...	bcmf	bcmbrp	42	51	3	—	2.6
	Morecambe ...	cbc	bc	43	52	4	—	2.5
9	Ilkley... ...	ocbc	c	40	50	7	—	1.3
	Harrogate ..	bbc	bcom	42	46	4	—	1.6
10	Berwick-on-T.	cm.	cm.bc	42	47	4	0.1	1.5
11	Dunbar ...	crr	bcm.	41	51	7	0.5	2.7
12	Troon... ...	ocobc	bco	43	48	11	—	1.7
	Douglas ...	ofiR	cf	42	48	9	—	0.5

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.–9h



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 21st January, 1939.

Districts.	Forecasts
1 S.E. England ↓ 2 E. England ↓ 3 E. Midlands ... 4 W. Midlands ...	Southwrly winds veering temporarily and moderating but backing and freshening again later; dull and rainy at first with rain renewed again later in the period after a fairer interval; rather mild.
5 S.W. England ↓ 6 South Wales ...	Fresh west or northwest winds, moderating temporarily but increasing again from south; mainly fair at first, occasional rain later; rather mild.
7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England ↓ 11 S.E. Scotland ↓ 12 S.W. Scotland & Isle of Man.	As 1 - 4.
13 A. W. Scotld. B. N.W. Scotland. 14 Mid Scotland 15 N. E. Scotland ↓ 16 Orkney and Shetland ↓	Winds becoming light and variable temporarily but freshening from south or southeast later, periods of rain but some fair intervals; rather mild.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 5 - 6.

H.M. Stationery Office Press, Kingsway, W.C.2. c.796/1673 m 9066 D.3763 Kp 948 29-40 1/39.

GENERAL INFERENCE.

A depression over Southern Ireland will move northeast and another southeast of Newfoundland will move rapidly east. There will be rain in most districts at first and rain will be renewed again after a brief fairer interval.

FURTHER OUTLOOK.

Continuing unsettled and mild.

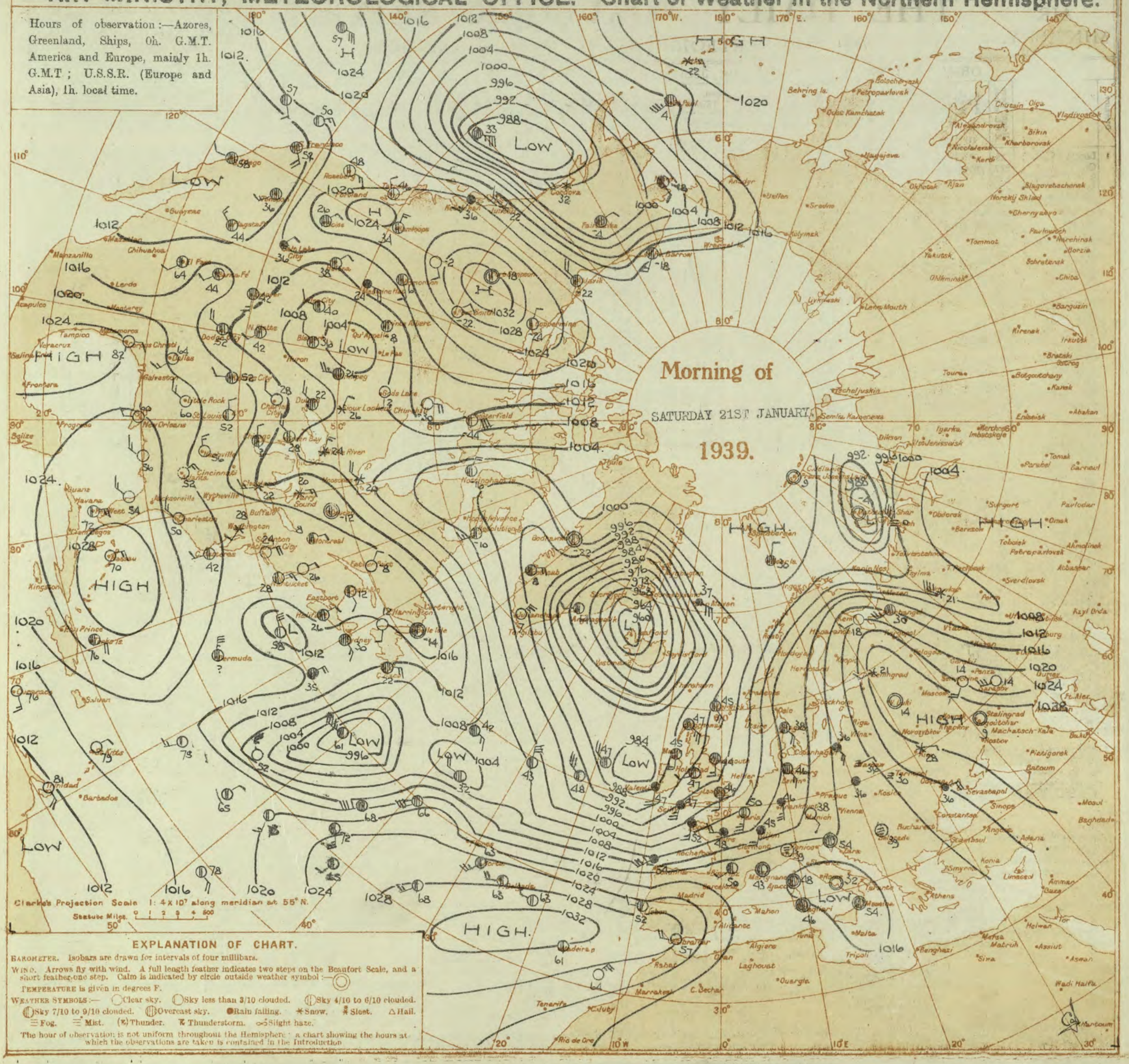
Times of issue of Gale Warning.

↓ South Cone hoisted at 1440 on 19th in districts 5,15 & 16 and at 0840 on 21st in 1,2,10 & 11.

Forecasts issued at 1000 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S.
Director.

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 21st January, 1939.
No. 28184

OBSERVATIONS at 1 hr. G.M.T. 21st January

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	998.5	+8	S	2	z0	46	97	5	5	-	-	10	10	2500
	S. Farnborough	228	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1000.0	+2	SE'S	1	d0d0	45	97	4	5	-	-	10	10	220
	Manston	154	999.0	+10	SSE	2	c	45	97	6	5	-	-	7-8	7-8	2500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	998.2	0	SW'S	4	o/pr	45	92	6	5	-	-	10	10	2500
	Mildenhall	19	997.9	+8	SSW	2	m	46	92	4	5	-	-	4-6	4-6	1500
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	406	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	995.4	-16	W	5	o	47	97	7	-	2	-	10	10	800
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32	999.5	+14	W	3	c	47	92	7	4	4	-	4-6	7-8	2500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard	240	998.6	-8	SW	4	pr	48	97	6	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	996.5	-22	SSW	5	rr	47	97	5	5	-	-	10	10	800
	Guernsey	175	1000.4	+10	SW'W	3	ir0	49	97	6	5	-	-	10	10	1500
6	Pembroke	142	993.9	-4	WSW	4	c	48	97	7	5	-	-	9+	9+	2500
7	Holyhead	26	991.7	-10	S'W	3	c	47	92	7	5	-	-	9+	9+	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	996.9	0	SE'S	2	m	43	97	4	5	-	-	10	10	800
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	108	994.9	-10	S	3	o	44	97	5	5	-	-	10	10	1500
11	St Abbs Head	280	994.3	-6	SSE	2	f-	42	92	3	-	-	-	10	10	<150
	Leuchars	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	991.6	-12	S'W	3	c	46	92	7	5	2	-	9	10	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	988.6	-20	SE	5	c	47	85	7	5	2	-	7-8	10	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	992.8	-6	SSW	3	bc	43	92	6	5	7	-	2-3	4-6	1500
16	Lerwick	156	993.4	+4	SSE	6	c	45	85	7	8	2	-	7-8	10	800
17	Blacksod Point	18	988.8	-6	N	2	c	47	92	7	8	-	-	9	9	800
18	Malin Head	84	987.6	-14	S	3	c	45	85	7	4	1	-	4-6	7-8	4000
	Aldergrove	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	987.2	-26	S	4	rr	47	97	6	8	-	-	10	10	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 21st January — PAST 24 HOURS.

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Temperature Max. Day 7h–18h ‡°F. (31)	Temperature Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 20th Hrs. (36)
London (Kew)	995.0	-28	SSE	3	z0	45	97	6	5	-	-	10	10	1500	1	*	52	42	30	4	0.2	0.6
Croydon	995.8	-22	SE'S	3	m/f	44	97	4	5	-	-	10	10	220	1	*	51	42	40	3	0.1	0.0
S. Farnborough	993.9	-30	SE	3	r0r0	45	97	6	5	-	-	10	10	800	1	*	51	42	38	2	0.1	0.0
Boscombe Down	992.6	-40	SSE	4	rr	46	97	7	5	2	-	9+	10	450	1	*	49	41	36	3	4	0.1
Calshot (Sthmtn.)	995.1	-34	SSE	4	rr	47	97	6	6	2	-	10	10	800	1	2	50	43	41	3	4	0.0
Lympne	998.0	-14	SW	3	c/f	44	97	5	5	-	-	9+	9+	450	1	§2	49	43	37	3	3	0.4
Manston	997.0	-6	SSW	2	c	44	97	6	5	-	-	10	10	800	1	*	53	43	40	3	1	1.8
Shoeburyness	996.5	-20	S	3	c	44	97	7	-	2	-	0	9	-	1	*	51	43	33	2	1	1.9
Felixstowe	996.8	-8	S	2	m	43	97	4	5	-	-	10	10	800	1	2	50	41	37	0.1	0.4	2.8
Gorleston	997.0	-8	SSE	3	c	45	92	8	5	-	-	9	9	2500	1	2	51	42	41	0.2	1	0.8
Mildenhall	994.9	-20	SE'S	3	z0	44	97	5	5	-	-	4-6	4-6	800	1	*	53	43	38	0.1	Tr	2.1
Cranwell	994.7	-22	SE'S	3	f	46	97	3	-	-	-	10	10	<150	1	*	52	37	32	0.1	Tr	2.5
Birmingham	992.2	-28	SSE	3	rr	42	97	6	6	-	-	10	10	800	1	*	49	41	38	0.1	0.5	0.0
Upper Heyford	993.8	-12	SSE	4	rr	43	97	5	6	-	-	10	10	800	1	*	50	40	31	2	1	*
Ross-on-Wye	990.8	-24	SW	2	rr	45	97	6	5	-	-	10	10	1500	1	*	51	40	31	2	4	0.6
Hartland Point	987.1	-52	SW	6	rr	50	97	6	-	2	-	10	10	800	1	4	51	46	44	1	11	0.7
Bristol	990.4	-50	SSE	4	rr	46	97	6	6	-	-	10	10	800	1	*	51	39	32	1	7	0.5
Portland Bill	990.3	-50	S	5	rr	47	92	7	5	-	-	10	10	1500	2	6	51	46	*	1	8	*
Plymouth	990.2	-34	SW'W	5	ir0	51	97	5	-	2	-	10	10	800	1	3	52	47	43	6	10	0.4
The Lizard	990.2	-24	SW'W	6	o	51	97	6	5	-	-	10	10	1500	1	4	51	46	*	9	13	2.0
Scilly (St. Mary's)	988.8	-26	WSW	6	o/pr	52	97	6	5	-	-	10	10	1500	1	4	51	46	*	6	9	3.7
Guernsey	994.0	-44	SW	4	rr	50	97	6	5	-	-	10	10	1500	1	3	51	47	45	9	14	0.3
Pembroke	987.0	-36	WSW	4	rr	49	97	5	5	-	-	10	10	800	1	3	50	46	*	0.1	12	0.1
Holyhead	987.3	-22	S	3	r0r0	46	97	6	6	2	-	7-8	10	450	1	2	52	45	43	Tr	3	3.2
Chester (Sealand)	989.8	-28	SE'E	2	r0r0	44	92	5	6	2	-	9	10	800	1	*	52	41	35	0.1	0.5	2.9
Manchester	990.7	-24	SSE	3	ir0	44	92	6	5	2	-	9	10	1500	1	*	52	43	38	—	0.1	1.5
Spurn Head	993.9	-8	S'E	4	F	40	97	1	-	-	-	10	10	<150	1	2	47	39	*	0.1	Tr	0.0
Catterick	991.1	-18	SE'S	1	m	40	97	4	5	-	-	10	10	450	1	*	47	39	38	0.1	-	0.3
Tynemouth	991.0	-8	S	3	c	43	92	6	5	-	-	7-8	7-8	800	1	2	50	42	36	1	-	1.9
St Abbs Head	989.5	-24	SE	2	m/pr	43	97	4	3	2	-	7-8	10	800	1	2	46	38	*	2	0.2	*
Leuchars	988.9	-20	ESE	3	id0	44	97	5	-	2	-	10	10	450	1	*	45	35	30	2	Tr	0.1
Renfrew (Abbots I.)	987.9	-20	S'W	1	z0	45	92	6	5	2	-	4-6	10	1500	1	*	46	41	34	0.3	0.1	0.0
Eskdalemuir	988.8	-20	SSE	3	c/r	41	97	6	5	-	-	10	10	800	1	*	45	35	31	Tr	0.2	0.0
Point of Ayre	987.9	-14	SSW	2	r0r0	46	97	7	8	2	-	9	10	1500	1	1	49	43	*	—	1	1.5
Tiree	985.6	-6	SSW	3	id0	45	97	7	5	-	-	9+	9+	1500	1	*	47	44	44	—	3	0.0
Stornoway	986.1	-16	S	6	pr	46	75	6	5	2	-	9	10	1500	1	3	47	45	*	0.3	1	0.0
Dalwhinnie	989.6	-20	-	0	m	39	97	4	8	-	-	10	10	1500	1	*	41	37	32	1	Tr	0.7
Aberdeen	990.0	-18	SSE	3	df	45	97	2	-	-	-	10	10	<150	1	3	44	37	30	3	2	0.0
Wick	988.8	-20	SSE	7	c	45	97	5	5	2	-	9	10	800	1	3	45	41	*	1	-	*
Lerwick	991.4	-16	SSE	7	c	45	85	7	8	7	-	7-8	9	800	1	*	45	43	*	2	2	0.0
Blacksod Point	988.1	+6	NW	2	c	44	97	7	8	-	-	10	10	800	1	3	50	43	*	—	2	*
Malin Head	986.5	-10	S	1	c	44	97	7	8	2	-	4-6	9	2500	1	3	47	43	*	—	1	2.4
Aldergrove	986.9	-6	SW	2	r0r0	44	97	6	-	2	-	10	10	800	1	*	50	42	39	—	1	2.6
Birr Castle	985.3	-20	ESE	1	ir	44	97	7	6	2	-	7-8	10	800	1	*	51	41	36	—	7	1.7
Valentia Obsy. †	984.7	+4	N'W	6	ir0	48	92	6	5	-	-	10	10	450	1	5	51	46	44	5	9	1.8
Roches Point	984.1	-14	W'S	4	rr	51	97	7	6	2	-	7-8	10	800	1	5	50	46	*	1	4	*

LONDON OBSERVATIONS

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except for rainfall which is 9h—18h.

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew	18	cm0prcm	cm0prcr0	cir0cmW	52	42	30	4	0.2	0.6	*	*	5
Croydon	217	cm0r0cm	crrrm0	dr0m cf	51	42	40	3	0.1	0.0	*	*	6
Greenwich (Royal Observatory)	149	crm0	rcr	rcr	51	42	33	2	3	0.3	90	97	5
City (Bunhill Row)	—	*	*	*	*	*		*	*	0.0	*	*	*
Westminster (St. James' Park)	27	*	*	*	52	45	37	5		*	87	96	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	53	43	37	3	3	0.0	86	94	*
Camden Square	110	bc	c	*	52	44	38	3	2		*	95	*
Kensington	80	bc	cr	*	53	44	36	3	3	0.1	At 18h 93	96	*
Hampstead Observatory	450	r	or	or	50	42	37	3	3	0.2	*	99	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 21st.

	Max.	Time.	Min.	Time.
South Kensington	0.3	17-19h 20th	<0.3	3-5h 21st
Kew Observatory	0.3	18h 20th	<0.1	6h 21st

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 20th January: Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 21st January: Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours: Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris	1004.6	WSW	4	b	50	1002.4	WSW	3	c	48	57	48	4	1
Brussels	1003.7	S'E	5	c	48	999.9	S	4	ir0	46	52	45	2	3
Berlin	1013.6	SSE	3	b	43	1010.6	SE	3	ir0	39	50	37	-	1
Zürich	1017.1	SE	1	c	41	1014.6	SSW	1	r	41	43	36	-	0.4
Rome	1014.7	ESE	2	bc	54	1014.6	—	0	bc	45	*	*	-	Tr

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
THE BEAUFORT SCALE OF WIND is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	<1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	> 75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

Objects not visible at
0 Dense fog 55 yards.
1 Thick fog 220 ,,
2 Fog 550 ,,
3 Moderate fog 1,100 ,,
4 Mist or haze 1½ miles.
5 Poor visibility 2½ ,,
6 Moderate ,, 6¼ ,,
7 Good ,, 12½ ,,
8 Very good ,, 31 ,,
9 Excellent ,, beyond 31m.

COLUMN 30.—Code for State of Sea.

0 Calm. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 Precipitous.
4 Rough. 9 Confused.

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY, LONDON, W.C.2. N. K. JOHNSON, M.Sc., A.R.C.S., Director.

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 22nd January, 1939.
No. 28165

OBSERVATIONS at 13h. G.M.T. 21st January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	°Temp. F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	989·0	-22	S	2	m z.	50	92	5	5	-	-	10	10	1500
	Croydon ...	990·1	-24	SW	3	m/d	49	97	4	5	-	-	10	10	220
	S. Farnborough	988·8	-18	SW	2	c/r	51	97	6	6	2	-	10	10	450
	Boscombe Down	989·0	-2	WN	2	d.d.	52	97	6	6	2	-	7-8	10	450
	Calshot (Stbmtn.)	990·4	-14	SWS	4	id.	50	97	5	5	2	-	10	10	450
	Lympne ...	991·9	-38	SE	4	df	47	97	2	-	-	-	10	10	<150
	Manston ...	990·9	-36	SSE	4	d.d.	47	97	5	6	-	-	10	10	220
2	Shoeburyness ...	990·2	-40	SSE	3	c	46	97	7	6	2	-	9+	10	800
	Felixstowe ...	991·4	-34	SSE	4	ir.	45	97	6	5	-	-	10	10	450
	Gorleston ...	992·8	-24	SSE	4	r.r.	43	92	6	5	-	-	10	10	1500
	Mildenhall ...	989·5	-34	SEE	4	d.d.	47	97	6	6	2	-	7-8	10	800
	Cranwell ...	989·9	-22	ESE	3	dd	44	97	4	-	2	-	10	10	220
3	Birmingham ...	989·0	-4	-	0	rf	46	97	3	6	-	-	10	10	800
	Upper Heyford	989·2	-12	-	0	o/r	48	97	5	5	-	-	10	10	450
4	Ross-on-Wye	988·7	-2	SW	2	z.	49	85	6	8	7	9	2-3	4-6	2500
5	Hartland Point	988·7	+12	SW	4	o	49	97	6	5	-	-	10	10	800
	Bristol ...	989·0	0	WSW	3	c	52	92	7	9	2	-	7-8	10	800
	Portland Bill ...	989·1	-6	SW	4	c	50	92	7	2	4	-	7-8	10	1500
	Plymouth ...	989·4	+2	WSW	2	z.	51	97	5	5	7	-	9	9+	800
	The Lizard ...	989·7	+8	WN	4	c	51	97	6	5	-	-	10	10	1500
	Scilly (St. Mary's)	990·0	+18	NNW	5	c/d	51	92	6	5	-	-	10	10	1500
	Guernsey ...	990·6	-12	SW	3	c	52	75	7	3	3	-	4-6	7-8	2500
6	Pembroke ...	988·6	+10	WNW	4	o	50	97	6	5	-	-	10	10	800
7	Holyhead ...	987·8	+14	NNE	3	r.r.	46	97	6	6	2	-	7-8	10	450
	Chester (Sealand)	988·7	+2	SE	1	dd	46	97	4	6	2	-	9	10	800
8	Manchester ...	989·0	-6	SE	2	ir.	47	92	4	5	2	-	4-6	10	2500
10	Spurn Head ...	990·9	-12	SE	3	rr	43	97	4	5	-	-	10	10	800
	Cattterick ...	990·6	0	SES	1	rf	41	97	3	-	-	-	10	10	<150
	Tynemouth ...	990·8	0	S	3	o/r	43	92	5	-	2	-	10	10	1500
11	St Abbs Head ...	989·8	+2	SSE	1	c pr	45	97	5	8	6	-	7-8	9+	1500
	Leuchars ...	989·7	+2	-	0	c	45	97	7	5	7	-	4-6	9+	2500
12	Renfrew (Abbots I.)	990·1	+14	-	0	m	45	97	4	5	-	-	10	10	800
	Eskdalemuir ...	990·0	+6	-	0	d.d.	42	97	4	6	-	-	10	10	<150
	Point of Ayre ...	990·0	-6	-	0	d.d.	46	97	6	-	2	-	10	10	1500
13A	Tiree	990·9	+6	NNW	2	id.	47	97	7	5	-	-	9+	9+	1500
13B	Stornoway ...	990·1	+24	W	3	pr	45	97	7	5	2	-	7-8	9+	2500
15	Dalwhinnie ...	*	+14	S	2	c	41	92	7	8	-	-	10	10	2500
	Aberdeen ...	989·8	+2	S	2	m	44	97	4	5	-	-	10	10	<150
	Wick ...	988·5	+2	SSE	5	r.r.	45	97	5	5	2	-	9	10	800
16	Lerwick ...	990·7	-8	SSE	7	c/r	46	92	6	8	2	-	4-6	9+	800
17	Blacksod Point	996·5	+56	NNW	4	c	46	92	8	9	-	-	7-8	7-8	1500
18	Malin Head ...	990·9	+30	W	3	c	47	92	8	4	8	-	4-6	9	5700
	Aldergrove ...	991·3	+28	NNW	1	c/d	45	97	6	5	-	-	9+	9+	2500
19	Birr Castle ...	993·4	+22	NNW	1	c	46	97	7	6	2	-	4-6	10	1500
20	Valentia Obsy. †	998·3	-26	NNW	6	bc	49	75	8	8	-	1	4-6	4-6	1500
	Roches Point	993·7	+64	N	6	c	48	92	8	8	4	-	4-6	7-8	1500

OBSERVATIONS at 18h. G.M.T. 21st January

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	°Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
1	London (Kew)	993·6	+32	WSW	2	z.	51	92	5	5	-	-	1	1	1500	1	*
	Croydon ...	993·3	+30	WN	3	m	51	97	4	5	-	-	9+	10	1500	1	*
	S. Farnborough	993·5	+32	W	2	bf g	48	97	6	5	4	-	Tr	1	5700	2	*
	Boscombe Down	994·3	+34	WN	3	c	49	92	7	5	2	-	9	10	1500	1	*
	Calshot (Stbmtn.)	994·0	+30	WS	2	z.	49	97	6	5	4	1	2-3	4-6	2500	1	2
	Lympne ...	994·0	+20	WSW	2	rF	49	97	1	-	-	-	10	10	<150	1	§ 2
	Manston ...	992·6	+22	SWW	2	f	49	97	3	-	-	-	10	10	<150	1	*
2	Shoeburyness ...	992·8	+30	-	0	m	49	97	4	-	-	-	0	0	-	1	*
	Felixstowe ...	992·3	+16	SWS	3	m	46	97	4	5	-	-	10	10	220	1	2
	Gorleston ...	992·2	+6	S	3	cf	44	97	3	6	-	-	10	10	800	1	3
	Mildenhall ...	991·2	+10	WS	2	z.	48	97	5	5	-	-	10	10	1500	1	*
	Cranwell ...	993·0	+30	NNW	1	rf	45	97	2	-	-	-	10	10	<150	1	*
3	Birmingham ...	993·8	+32	NW	3	df	47	92	3	6	-	-	10	10	800	1	*
	Upper Heyford	993·5	+30	-	0	ir.	47	97	5	5	-	-	10	10	1500	1	*
4	Ross-on-Wye	994·6	+40	W	3	id	50	92	6	5	-	-	10	10	1500	1	*
5	Hartland Point	998·5	+48	NNW	5	ir.	47	97	7	8	7	-	7-8	9+	800	1	4
	Bristol ...	993·6	+24	WS	3	z.	49	97	6	5	7	-	4-6	7-8	1500	1	*
	Portland Bill ...	994·7	+36	WNW	4	c	49	92	7	5	-	-	7-8	10	2500	1	5
	Plymouth ...	998·1	+62	N	5	c/r	49	85	6	5	7	-	9	9+	800	1	2
	The Lizard ...	1000·5	+42	NW	6	c	48	92	8	8	6	-	7-8	7-8	2500	1	3
	Scilly (St. Mary's)	1002·4	+80	NWN	6	bc	48	85	8	8	-	-	2-3	2-3	1500	1	4
	Guernsey ...	999·9	+44	W	3	c	51	97	7	8	-	-	10	10	2500	1	5
6	Pembroke ...	998·7	+60	NNW	5	bcq	48	85	7	5	7	-	2-3	4-6	2500	1	3
7	Holyhead ...	997·1	+54	NWN	5	c	47	92	7	8	4	-	4-6	7-8	1500	1	2
	Chester (Sealand)	995·5	+52	WNW	4	rf	45	97	2	-	-	-	10	10	<150	1	*
8	Manchester ...	994·7	+20	NWN	2	rf	45	97	3	-	2	-	10	10	800	1	*
10	Spurn Head ...	993·2	+14	NE	2	dd	43	97	4	5	-	-	10	10	220	2	1
	Cattterick ...	994·7	+30	-	0	r.r.	43	97	4	-	2	-	10	10	1500	1	*
	Tynemouth ...	994·6	+20	S	1	ir.	44	92	5	-	2	-	10	10	800	1	2
11	St Abbs Head ...	994·0	+14	WNW	1	r.r.	45	92	6	5	2	-	7-8	10	1500	1	3
	Leuchars ...	994·7	+34	-	0	ir.	43	97	6	5	2	-	9	10	2500	1	*
12	Renfrew (Abbots I.)	995·7	+38	WN	1	z.	44	92	6	5	5	-	4-6	9+	2500	1	*
	Eskdalemuir ...	994·2	+30	-	0	id.	42	97	6	5	2	-	7-8	10	450	1	*
	Point of Ayre ...	997·0	+40	NWN	4	c	46	92	8	5	-	-	7-8	7-8	1500	1	3
13A	Tiree	999·0	+40	NW	5	bc	45	85	8	5	4	-	2-3	2-3	2500	(1)	3
13B	Stornoway ...	997·7	+50	WNW	4	pr	43	75	7	5	7	-	4-6	7-8	2500	1	2
15	Dalwhinnie ...	*	+40	N	2	c	40	97	6	5	2	9	7-8	10	1500	1	*
	Aberdeen ...	994·7	+34	-	0	id.	44	97	4	5	-	-	10	10	<150	1	3
	Wick ...	993·0	+36	WNW	2	c	43	97	7	5	1	-	7-8	9+	1500	1	2
16	Lerwick ...	991·2	+4	SSE	8	c/r	45	97	6	8	2	-	7-8	10	800	1	*
17	Blacksod Point	1001·4	+48	NNW	4	bc	44	85	8	2	-	-	2-3	2-3	1500	1	3
18	Malin Head ...	1000·2	+80	NNW	4	bc/pr	46	75	8	8	-	4-	4-6	4-6	5700	1	3
	Aldergrove ...	998·8	+50	NNW	3	pr	44	92	8	8	-	-	10	10	1500	1	*
19	Birr Castle ...	1002·7	+48	NNW	1	bc	43	92	8	-	3	-	0	4-6	-	1	*
20	Valentia Obsy. †	1001·5	+44	NWN	5	bc	47	65	8	8	-	-	4-6	4-6	2500	1	4
	Roches Point	1001·4	+64	NNW	5	bc	46	85	8	5	-	-	2-3	2-3	2500	1	4

PAST 24 HOURS.

District	Stations	Weather. 7h.—18h. 21st. (37)	Weather. 18h.—18h. 21st. (38)	Weather. 18h. 21st. to 1h. 22nd (39)	Weather. 1h.—7h. 22nd (40)
1	London (Kew)	c.r.r.r.m.	d.r.c.b.c.b	c.m.c	b.b.c.m.
	Croydon ...	c.m.r.d.d.	f.r.m.p.r	m.b.c.i.r.m	c.m.c
	S. Farnborough	r.i.r.d.c	d.i.R.b.c	b.m.c.p.r.b	b.W
	Boscombe Down	c.i.d.d.d.	d.d.c.b.c	c.r.r.b.c	b.c
	Calshot (Stbmtn.)	c.r.r.m	o.d.c.r.m	b.c.c.b.c.b	b.W
	Lympne ...	c.ff.r.r.d.	f.d.f.d.r.	f.r.b.d.c	b.c.m.
	Manston ...	c.m.r.r.r.	o.d.d.ff	o.f.f.c.m	c.m.
2	Shoeburyness ...	c.o.r.r.c	c.i.r.c.b	b.m.f.b.c	c.
	Felixstowe ...	o.m.o.r.r.m	o.d.d.m.o	o.m.o.ff.d	o.i.d.m.
	Gorleston ...	c.r.	o.r.r.ff	o.f.f.z.c	c.z.
	Mildenhall ...	r.r.r.m.i.r.m	i.d.d.d.c.m	o.c.m.c.i.d.	c.i.d.c.m.
	Cranwell ...	ff.r.d.r.D	o.d.d.r.d.d.f	o.r.f.o.m	o.m
3	Birmingham ...	o.r.r.f	o.i.r.f	d.f.c	c
	Upper Heyford	c.m.r.r.m	c.m.c.b.c.r.m	c.m.c.c.m	c.m.b.c.b
4	Ross-on-Wye	o.R.R.m.c.p.m	b.c.c.p.c	d.r.c.b.c	c.b.c
5	Hartland Point	r.r.m.o.r.	o.d.c.i.r.	b.c.b.c	b.c.c
	Bristol ...	c.r.r.d.c	c.j.p.r.m	b.c.c.b.c	b.c.b.b.c
	Portland Bill ...	c	c	c.b.c	b.c.c
	Plymouth ...	o.r.r.c.m.	c.i.r.m.	c.m.b.c.m	b.c.c.m.
	The Lizard ...	p.r.c	c.i.d.d.c	c.b.c	b.c.p.r.c
	Scilly (St. Mary's)	c.p.i.d.o	o.r.c.i.r.c.b	b.c.b.b.c	b.c.c
	Guernsey ...	o.r.r.i.r	c.i.d	o.c.b.c	b.c.c
6	Pembroke ...	o.p.r.m	c.i.r.b.q	b.c	b.c.c.q
7	Holyhead ...	r.r.i.r.m.	r.r.o.i.r.c	c.b.c	b.w.b.c
	Chester (Sealand)	r.n.d.d.m	d.d.r.i.n.f	f.d.r.c.c.m	c.b.c.m.
8	Manchester ...	m.o.r.r.ff	m.r.r.o.ff	c.r.f.m.m	c.m.
10	Spurn Head ...	f.o.m.r.r	r.n.d.d.o	d.o.m.i.f	c.m.p.r.
	Cattterick ...	d.o.d.o.r.r.f	f.r.o.r.r	o.r.r.o.m	c.m.m.d.
	Tynemouth ...	c.o.i.r.	o.i.r.	o.i.r.r.r	o.p.b.c
11	St Abbs Head ...	i.r.m.o.c	r.r.m.o.c	o.r.r.c	c.b.c
	Leuchars ...	c.r.r.o.m.c	r.r.o.c.i.r.m	c.i.r.c.x	c.x
12	Renfrew (Abbots I.)	d.o.d.o.r.r.m	o.m.f.r.o.m	o.m.d.b.c.b	b.b.c.m.
	Eskdalemuir ...	r.o.r.d.	d.o.r.r.i.d.	i.d.c	b.c.c
	Point of Ayre ...	c.d.o.d.	r.o.r.c	c.b.c.b	b.b.c
13A	Tiree	c.d.r.o.c	c.i.d.b.c	b.c	b.c.c
13B	Stornoway ...	c.r.r.p.r.	c.p.r	c.p.r.b	b.b.c
15	Dalwhinnie ...	c.i.r	c	o	c.i.r.b.c
	Aberdeen ...	f.d.o.o.m	c.m.i.r.o.d	i.r.m.c	c.b.c.b.x
	Wick ...	c.r.m.o	m.o.r.c	b.c.p.r.	b.c
16	Lerwick ...	c.i.r.	c.i.r.i.r	c.i.r.	b.c
17	Blacksod Point	p.r.c.q	b.c	b.c	p.r.c.q
18	Malin Head ...	c	c.i.d.c	c.p.r.c.b.c	b.c.c
	Aldergrove ...	r.o.r.ff.c.m.	c.m.c.p.r.	c.p.r.b.x	b.b.c.c
19	Birr Castle ...	c.i.r.c	c.b.c	b.c	b.c.c.i.r
20	Valentia Obsy. †	c.p.r.b.c	b.c.c.p.r.q.b.c	b.c.c	c.r.r
	Roches Point	r.r.p.r.c	c.b.c	b.c	c.r.r

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s$_o$, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s$_o$/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r$_o$, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
⊕, Solar halo. ◐ lunar halo. Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As: Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. „ wet.
2 .. „ flooded.
3 .. „ frozen hard and dry.
4 .. „ partly covered with snow or hail.
5 .. „ covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. „ covered with snow, less than 6 ins., deep but ground not frozen.
8 .. „ covered with snow, less than 6 ins., but ground frozen
9 .. „ covered with snow greater than 6 ins. deep

NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

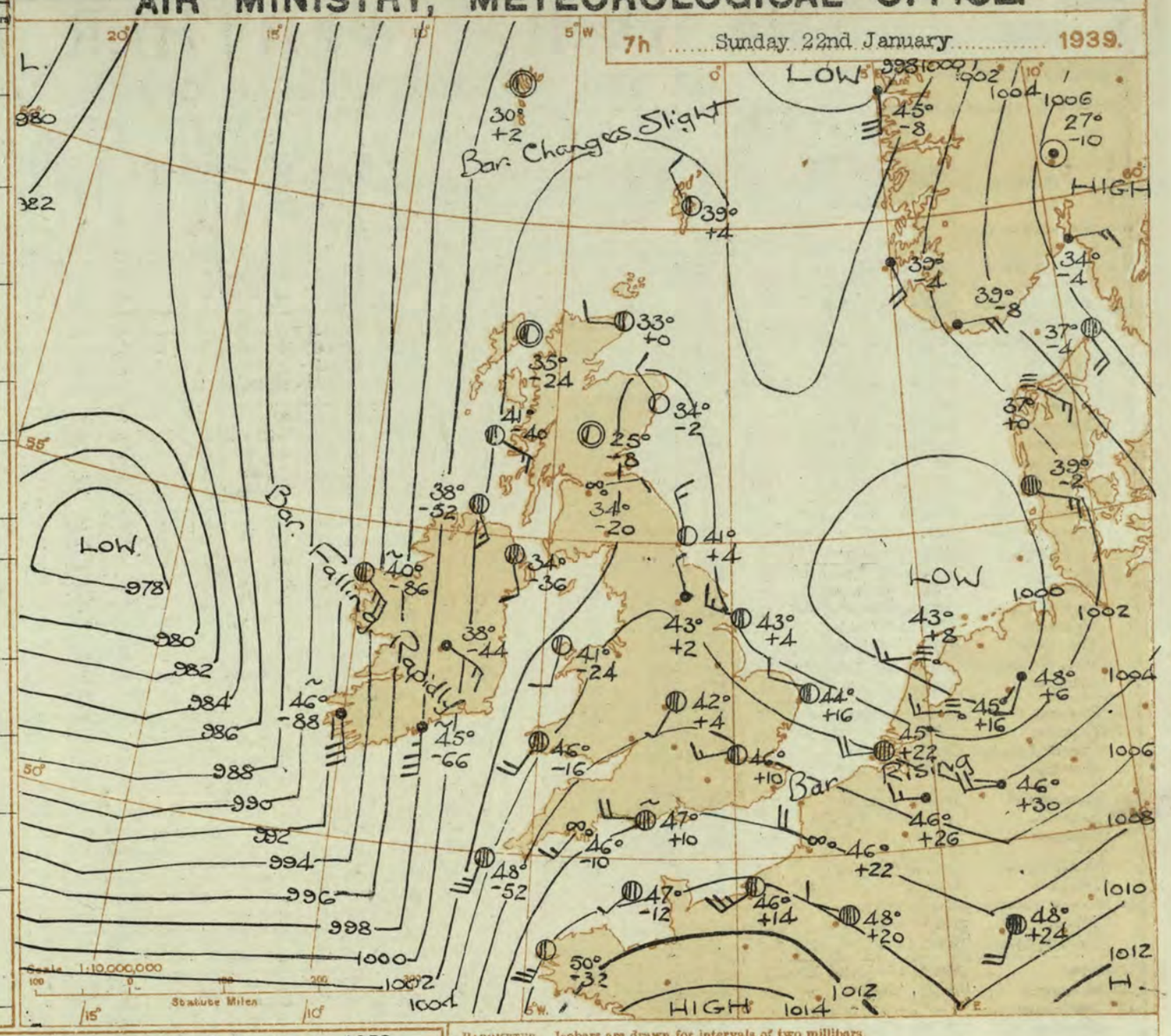
† Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 22nd January 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F.) Min. 9h. 21st to 9h. 22nd	Temperature. (°F.) Max. 9h.—17h. 21st.	Rainfall. (mm.) Night. 17h. 21st to 9h. 22nd	Rainfall. (mm.) Day. 9h.—17h. 21st.	Sunshine (hrs) Sunrise to Sunset. 21st.
1	Tunbridge W.	oro	oro	43	50	3	1	0·0
	Bournemouth	o	opo	44	53	9	0·5	0·0
	Ventnor ...	orf	rocp	45	50	14	2	0·0
	Southsea ...	oro	oco	45	52	8	0·6	0·0
	Bognor Regis	roir	oc	44	50	7	2	0·0
	Littlehampton	oro	o	44	50	7	2	0·0
	Worthing ...	or	o	45	50	7	2	0·0
	Brighton ...	rdc	c	44	50	5	3	0·0
	Eastbourne† ...	rrdd	ddo	44	51	4	6	0·0
	Hastings† ...	orrd	d.d.m	44	50	3	4	0·0
	Folkestone ..	m.orro	or.o	44	49	4	4	0·0
	Dover ...	orr	ro	45	50	3	3	0·0
	Deal	oodd	ddo	44	50	5	2	0·0
	Ramsgate ...	or	r.o	43	50	4	2	0·0
	Margate ...	cr	cd	45	50	4	2	0·0
2	Southend ...	or	od.om	43	50	2	3	0·0
	Clacton-on-Sea	or.r	oridm	41	45	3	1	0·0
	Dovercourt ...	doc	docf	44	47	0·5	3	0·0
	Lowestoft ...	cfpr	oirf	42	45	–	1	0·0
	Skegness ...	o'r	r	42	47	1	4	0·0
	Mablethorpe...	or	or	39	44	Trace	3	0·0
	Cleethorpes ...	oor	orr	42	44	Trace	5	0·0
3	Leamington S.	or	od	40	49	7	1	0·0
4	Cheltenham†	oir.c	cop	38	54	4	1	0·8
5	Bath	cr.	c	38	53	8	0·3	0·0
	Weymouth ...	mo	d.cbc	46	53	9	0·1	0·5
	Jersey ...	rrc	cpo	44	51	10	1	0·0
	Torquay ...	ordpqc	bccjp	45	55	7	0·5	1·2
	Falmouth	orqcr	rcoqq	46	54	18	4	0·2
	Penzance ...	rcp	cp	46	54	17	1	0·1
	St. Ives ...							
	Bude... ...	cpbcc	coro	46	52	4	–	0·7
	Ilfracombe ...	rroco	oro	45	53	12	2	0·6
6	Aberystwyth	prc	prc	45	50	3	6	0·0
7	Llandudno ...	dor.	rrr.o	45	47	1	4	0·0
	Colwyn Bay...	oddo	mrrq	45	48	1	4	0·0
	Rhyl	oor	romd.	42	48	1	2	0·0
8	Wallasey ...	dof	fr	42	46	3	1	0·0
	Southport ...	oro	orrom	42	47	1	2	0·0
	Blackpool ...	orm	orrf	41	45	2	2	0·0
	Morecambe ...	odr	c	44	46	2	3	0·0
9	Ilkley... ...	oor	ror	42	44	0·1	3	0·0
	Harrogate ...	offdd	offdd	40	42	0·2	4	0·0
10	Berwick-on-T.	om.r.	m.emo	39	45	0·1	0·2	0·0
11	Dunbar ...	bcm.	cm.r.	40	48	Trace	Trace	0·0
12	Troon... ...	ddoro	ococ	43	46	0·3	1	0·0
	Douglas ...	cirf	cfDc	44	46	4	5	0·0

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 22nd January, 1939.

Districts.	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ...	Moderate to strong southerly winds veering west later; rain spreading from west today, showers tomorrow; mild.
4 W. Midlands ... 5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ...	Fresh to strong southerly winds veering west, gale on coasts; rain today, showers and bright periods tomorrow; mild.
10 N.E. England 11 S.E. Scotland	Moderate to strong southerly winds, gale at times on coast; rain at times, showers tomorrow; average temperature.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland	Fresh or strong southeast to south winds, gale at times on coast, veering west tomorrow; rain today, showers later; average temperature.
16 Orkney and Shetland	South to southeast winds freshening, gale later; cloudy; rain later; average temperature.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Fresh to strong southerly winds, gale on coasts veering westerly; rain today, showers and bright periods; hail locally tomorrow; mild to average temperature.

GENERAL INFERENCE.

An intense disturbance off Western Ireland will move northeast. Rain will extend to all districts, but bright periods and showers will spread from the west later.

FURTHER OUTLOOK.

Strong squally westerly winds, showers, colder.

Times of Issue of Gale Warnings.

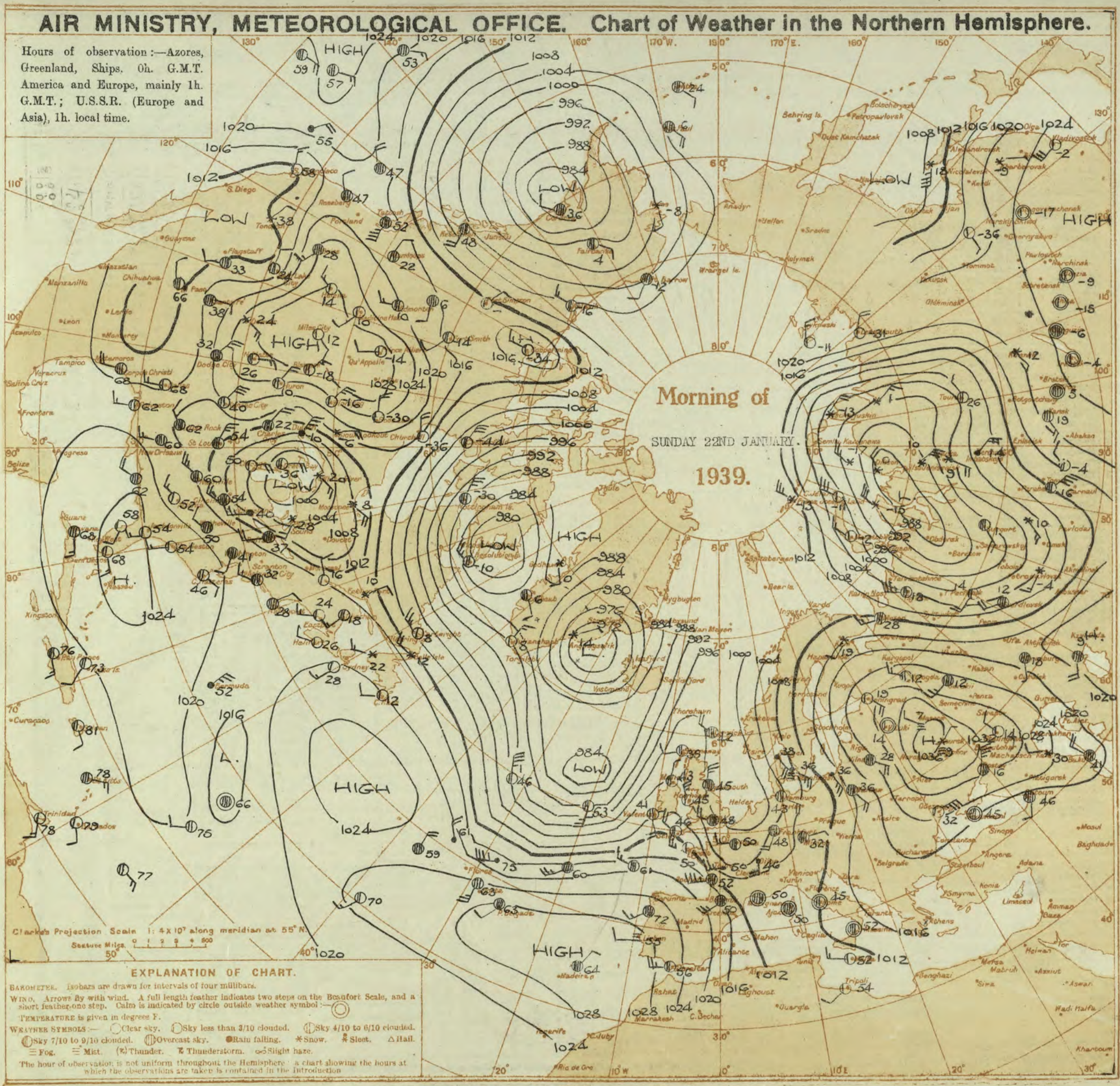
South Cone hoisted at 0200 on 22nd in districts 5,6,7,8,12,13A,13B,17,18,19,20., and at 0830 on 22nd in all other coastal districts.

Forecasts issued at 1030 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S.
Director.

H.M. Stationery Office Press, Kingsway W.C.2

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



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AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 22nd January, 1939.

No. 28185

OBSERVATIONS at 1 hr. G.M.T. 22nd January

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1002·3	+40	NNW	4	z	48	85	5	5	-	-	10	10	1500
	S. Farnborough	228	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1002·0	+34	NNW	3	c	45	92	6	5	-	-	7-8	7-8	1500
	Manston ...	154	1000·8	+36	WNW	2	z	46	97	5	5	-	-	10	10	800
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	998·9	+34	NW	3	c	45	92	6	5	-	-	9+	9+	1500
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1007·8	+28	NNW	3	bc	45	97	8	7	1	-	2-3	4-6	1500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1005·3	+40	NW	5	bc	48	85	8	5	-	-	4-6	4-6	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1010·4	+20	NW	3	bc	46	92	8	8	-	-	4-6	4-6	2500
	Scilly (St. Mary's)	163	1011·1	+20	NW	4	bc	46	75	8	2	-	-	2-3	2-3	2500
	Guernsey ..	175	1007·9	+40	WNW	4	bc	48	85	8	-	3	-	0	4-6	-
6	Pembroke ...	142	1008·2	+22	NNW	4	bc	45	85	7	8	-	-	4-6	4-6	2500
7	Holyhead ...	26	1005·2	+22	NNW	5	b	45	85	8	2	-	-	Tr	Tr	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	999·7	+20	NW	3	cf-	40	97	2	5	-	-	9+	9+	1500
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1000·4	+24	N	5	o/r	45	92	6	-	2	-	10	10	1500
11	St Abbs Head ..	280	1002·0	+32	NW	4	c	43	85	7	5	6	-	7-8	10	2500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1004·4	+28	NNW	5	b	45	85	8	-	4	-	0	Tr	-
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1002·4	+12	WSW	2	b	35	92	8	5	-	-	1	1	4000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1001·9	+34	NW	4	bc/pr	39	92	7	5	7	-	4-6	4-6	1500
16	Lerwick ...	156	998·8	+36	NW	4	c	42	85	7	8	2	-	7-8	10	800
17	Blacksod Point	18	1004·8	-20	S	2	b	41	85	8	-	-	-	0	0	-
18	Malin Head ...	84	1004·1	+10	NE	1	bc	43	75	8	4	-	-	2-3	2-3	5700
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1007·0	-10	SSE	3	c	41	97	8	4	-	-	7-8	7-8	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 22nd January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1006·4	+10	SSW	2	c	47	85	7	5	-	-	10	10	1500	1	*
Croydon	1006·2	+10	W'S	3	c	46	85	7	5	7	-	9	10	2500	1	*
S. Farnborough	1006·8	+10	WSW	3	bc	43	92	7	-	7	-	0	4-6	-	1	*
Boscombe Down	1007·6	+6	W'S	2	bc	39	97	8	5	4	-	2-3	4-6	2500	1	*
Calshot (Sthmtn.)	1007·8	0	WSW	2	b	41	92	7	5	4	-	1	1	4000	1	2
Lympne	1006·9	+14	W	3	z	45	92	6	5	-	-	10	10	4000	1	§2
Manston	1005·7	+16	W	3	z	46	85	6	5	-	-	10	10	1500	1	*
Shoeburyness	1005·3	+14	W	2	o	46	85	7	5	-	-	10	10	2500	1	*
Felixstowe	1004·7	+12	W'S	3	o/d	46	92	5	5	-	-	10	10	800	1	2
Gorleston	1003·7	+16	WNW	2	c	44	92	6	5	-	-	10	10	2500	1	2
Mildenhall	1004·0	+4	W'S	3	o/d	45	92	6	5	-	-	10	10	1500	1	*
Cranwell	1003·9	+8	WSW	2	m	43	97	4	5	-	-	10	10	800	1	*
Birmingham	1005·6	+4	SW	1	c	42	85	6	5	-	-	9+	9+	800	1	*
Upper Heyford	1006·1	+2	W	3	b	41	92	8	5	4	1	Tr	1	1500	1	*
Ross-on-Wye	1005·9	0	S	2	bc	40	85	7	5	-	2	1	4-6	2500	1	*
Hartland Point	1005·4	-28	W	4	c	45	85	8	5	1	-	4-6	9	1500	1	3
Bristol	1006·8	-6	SW'S	2	bc	41	97	7	5	3	-	1	4-6	1500	1	*
Portland Bill	1007·5	+10	W	4	c	47	85	8	5	-	-	7-8	7-8	2500	1	4
Plymouth	1007·6	-10	SW'W	3	z	46	85	6	5	7	-	2-3	9+	2500	1	2
The Lizard	1007·2	-24	SW'S	4	c	47	85	7	5	-	-	10	10	1500	1	3
Scilly (St. Mary's)	1004·9	-52	SW'S	5	gp	48	75	8	5	2	-	4-6	10	1500	1	3
Guernsey	1008·9	-12	WSW	1	c	47	85	9	2	3	-	4-6	7-8	2500	1	2
Pembroke	1003·9	-16	SW	4	cq	46	85	7	8	6	-	4-6	7-8	1500	1	3
Holyhead	1002·3	-24	S'W	2	bc	41	92	8	8	-	5	2-3	4-6	2500	1	2
Chester (Sealand)	1004·2	-12	ENE	1	bc	37	92	7	5	-	-	4-6	4-6	2500	1	*
Manchester	1004·7	+2	WSW	2	z	40	97	6	5	-	-	10	10	2500	1	*
Spurn Head	1011·5	+4	WNW	3	c	43	97	6	5	-	-	10	10	1500	1	2
Catterick	1003·4	+2	NNW	1	id	43	85	6	5	-	1	9+	9+	1500	1	*
Tynemouth	1002·8	+4	NNW	3	bc	41	85	7	2	-	-	4-6	4-6	1500	1	2
St Abbs Head	1002·0	0	NW	1	bc	41	85	8	4	4	-	2-3	4-6	2500	1	2
Leuchars	1002·1	+4	-	0	c	35	97	8	5	-	-	7-8	7-8	4000	1	*
Renfrew (Abbots I.)	1001·4	+20	E'N	2	z	34	92	6	5	-	-	7-8	9	2500	0	*
Eskdalemuir	1002·9	-6	-	0	c	34	97	7	5	-	-	10	10	1500	1	*
Point of Ayre	1001·8	-16	SW	1	bc	36	92	8	-	4	-	0	4-6	-	1	1
Tiree	998·5	-40	ESE	3	c	41	92	7	5	-	-	9	9	1500	0	*
Stornoway	1001·2	-24	-	0	bc	35	92	8	5	7	-	4-6	4-6	2500	1	0
Dalwhinnie	*	-8	-	0	b	25	85	8	4	6	-	Tr	Tr	4000	3	*
Aberdeen	1002·4	-2	NW	2	b	34	97	8	-	7	-	0	1	-	1	2
Wick	1001·5	0	W	2	bc	33	92	7	5	7	-	2-3	4-6	1500	1	2
Lerwick	1000·3	+4	NW	2	bc	39	65	8	5	-	-	4-6	4-6	1500	1	*
Blacksod Point	993·5	-86	SE	5	cq	40	97	7	9	-	-	9+	9+	800	1	4
Malin Head	997·4	-52	SSE	3	c	38	85	7	8	-	-	9+	9+	4000	1	3
Aldergrove	1000·6	-36	SSE	2	c	34	92	7	-	2	-	10	10	7200	1	*
Birr Castle	998·7	-44	ESE	3	ir	38	92	7	6	2	-	7-8	10	800	1	*
Valentia Obsy. †	992·2	-88	S'E	6	rr	46	97	6	5	-	-	10	10	220	1	5
Roches Point	997·3	-66	S	7	rr	45	97	7	6	2	-	7-8	10	800	1	5

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 21st Hrs. (36)
London (Kew)	52	47	41	5	-	0·0
Croydon	52	46	44	3	Tr	0·0
S. Farnborough	51	43	39	5	0·3	0·0
Boscombe Down	52	38	34	3	0·6	0·2
Calshot (Sthmtn.)	52	40	37	5	Tr	0·1
Lympne	49	45	41	4	0·4	0·0
Manston	49	45	44	2	-	0·0
Shoeburyness	49	46	37	2	-	0·0
Felixstowe	46	44	40	0·4	Tr	0·0
Gorleston	46	43	41	1	-	0·0
Mildenhall	48	44	43	1	0·1	0·0
Cranwell	45	43	42	4	0·1	0·0
Birmingham	48	42	38	7	0·2	0·0
Upper Heyford	49	40	31	5	1	*
Ross-on-Wye	52	40	33	4	1	1·7
Hartland Point	50	44	42	1	Tr	0·3
Bristol	52	40	36	4	-	0·0
Portland Bill	(50)	46	*	-	-	*
Plymouth	54	45	43	2	Tr	0·1
The Lizard	52	45	*	2	0·2	0·0
Scilly (St. Mary's)	52	45	*	2	-	0·2
Guernsey	53	46	44	3	-	0·1
Pembroke	50	43	*	5	-	0·0
Holyhead	47	38	31	12	-	0·0
Chester (Sealand)	47	37	28	5	0·1	0·0
Manchester	47	38	32	3	0·1	0·0
Spurn Head	43	39	*	6	1	0·0
Catterick	43	40	37	5	1	0·0
Tynemouth	44	41	37	2	2	0·0
St Abbs Head	46	41	*	1	0·1	*
Leuchars	46	35	26	1	0·3	0·0
Renfrew (Abbots I.)	46	31	26	0·6	Tr	0·0
Eskdalemuir	43	32	30	3	0·1	0·0
Point of Ayre	46	35	*	3	-	0·0
Tiree	47	33	25	1	-	0·0
Stornoway	47	35	*	4	Tr	0·0
Dalwhinnie	42	23	13	0·5	1	0·0
Aberdeen	45	33	30	0·1	0·1	0·0
Wick	46	32	*	1	Tr	*
Lerwick	46	37	*	3	1	0·0
Blacksod Point	48	38	*	0·5	3	*
Malin Head	47	34	*	0·3	Tr	0·0
Aldergrove	47	31	26	1	0·1	0·0
Birr Castle	47	33	31	0·2	1	0·6
Valentia Obsy. †	49	37	32	0·2	12	2·6
Roches Point	51	38	*	2	6	*

LONDON OBSERVATIONS

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except for rainfall which is 9h—18h.

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew ...	18	crrrm	drcbcb	cmbcm	52	47	41	5	-	0·0	·	·	6
Croydon ...	217	cmrdd	frmpr	mbccird	52	46	44	3	Tr	0·0	·	·	7
Greenwich (Royal Observatory)...	149	rc	crc	cfrc	52	44	39	1	Tr	0·0	94	88	5
City (Bunhill Row) ...	—	·	·	·	·	·	·	·	·	0·0	·	·	·
Westminster (St. James' Park) ...	27	·	·	·	52	45	39	1	·	0·0	92	89	·
Regents Pk. (Botanic Gardens)‡...	168	·	·	·	52	45	42	1	Tr	0·0	93	77	·
Camden Square ...	110	c	c	·	51	45	39	1	0·3	·	·	84	·
Kensington ...	80	cr	cd	·	52	45	40	2	0·1	0·0	At 18h. 97	87	·
Hampstead Observatory ...	450	or	o	bc	50	43	37	1	-	0·0	·	93	·

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 22nd

	Max.	Time.	Min.	Time.
South Kensington.	0·4	16-17h 21st	<0·3	6-8h 22nd
Kew Observatory.	0·5	18-19h 21st	<0·1	3-7h 22nd

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 21st January Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 22nd January Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris ...						1008·7	WNW	2	o	48		48		0·5
Brussels ...	994·9	S	4	dd	48	1005·0	W	3	id	46	48	46	2	3
Berlin ...	1007·5	SE	4	z	41	1007·2	SSE	4	c	36	48	34	Tr	-
Zürich ...						1013·9	SSW	1	c/r	41		39		4
Rome ...	1013·1	WNW	2	bc	54	1012·9	NE	2	bc	45	*	*	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	<1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	> 75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1¼ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6¼ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30.—Code for State of Sea.

0 Calm.	5 Very rough.
1 Smooth.	6 High.
2 Slight.	7 Very high.
3 Moderate.	8 Precipitous.
4 Rough.	9 Confused.

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY, LONDON, W.C.2.

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 23rd January, 1939.

No. 28186

OBSERVATIONS at 13h. G.M.T. 22nd January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0-12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0-10 (12)	Cloud Amount Total 0-10 (13)	Height of Base (feet) (14)
1	London (Kew)	1002.6	-32	S'E	3	pr	47	85	6	5	2	-	4-6	10	1500
	Croydon	1004.1	-22	S'W	4	ir_o	46	85	6	6	2	·	4-6	10	800
	S. Farnborough	1002.7	-34	S'W	4	$d_o d_o$	44	85	6	6	2	-	7-8	9+	1500
	Boscombe Down	1000.5	-60	S'E	5	$d_o d_o$	43	97	6	6	2	-	9	10	450
	Calshot (Sthmtn.)	1004.1	-38	S'E	5	$d_o d_o d_o$	46	85	6	6	2	-	7-8	10	800
	Lympne	1006.5	-12	SW	4	c	45	85	7	5	2	-	7-8	10	1500
	Manston	1005.0	-14	SW	4	c	46	85	6	5	7	-	9	10	1500
2	Shoeburyness	1004.5	-18	SWW	3	c	46	85	7	5	7	-	7-8	10	2500
	Felixstowe	1004.4	-10	SSW	4	z_o	46	85	6	5	2	-	7-8	10	1500
	Gorleston	1003.6	-6	SWW	4	c	46	85	6	5	-	-	9+	9+	2500
	Mildenhall	1002.2	-22	SSW	3	c	45	85	7	5	2	-	7-8	10	1500
	Cranwell	999.7	-38	S'E	3	c	43	85	7	5	2	-	9	10	4000
3	Birmingham	998.5	-50	SSE	2	ir	42	92	7	6	1	-	4-6	9+	800
	Upper Heyford	1001.5	-38	S'E	3	ir	43	92	6	6	2	-	7-8	10	450
4	Ross-on-Wye	995.2	-68	SSE	5	id_o	43	92	6	6	-	-	10	10	1500
5	Hartland Point	992.9	-80	SW	6	c	51	92	7	8	6	-	4-6	7-8	1500
	Bristol	998.6	-64	S	4	$d_o d_o$	45	92	6	5	2	-	7-8	10	1500
	Portland Bill	999.1	-52	S	6	rr	47	92	6	5	-	-	10	10	800
	Plymouth	997.5	-68	SW	5	c/r	51	97	6	5	-	-	7-8	7-8	800
	The Lizard	997.2	-34	WSW	7	c/pr	52	97	7	8	2	-	7-8	9	1500
	Scilly (St. Mary's)	996.8	-30	W'S	8	c	53	75	6	5	4	-	4-6	7-8	1500
	Guernsey	1003.0	-52	S'W	5	ir_o	47	97	7	5	-	-	10	10	2500
6	Pembroke	990.0	-70	W	8	cq	49	92	6	8	-	-	10	10	1500
7	Holyhead	990.5	-34	SSE	7	c/r	48	92	8	9	-	-	10	10	1500
	Chester (Sealand)	994.4	-80	SWW	5	ir_o	43	85	7	6	2	-	2-3	10	1500
8	Manchester	996.0	-70	SE'S	4	c/r	44	85	5	5	7	-	4-6	10	4000
10	Spurn Head	999.8	-20	SW'S	3	c	45	97	5	5	2	-	7-8	10	1500
	Catterick	996.3	-46	SE'S	2	z_o	41	92	6	5	2	-	7-8	10	800
	Tynemouth	997.1	-40	SSE	2	o	42	97	5	5	-	-	10	10	1500
11	St. Abbs Head	995.8	-40	SSE	3	c	40	92	8	5	2	-	7-8	10	2500
	Leuchars	995.4	-50	ESE	3	c	41	92	7	5	2	-	9+	10	1500
12	Renfrew (Abbots I.)	995.7	-50	ESE	2	rf	41	92	3	5	-	-	10	10	2500
	Eskdalemuir	994.5	-60	SE'S	3	rr	39	92	6	6	-	-	10	10	800
	Point of Ayre	991.5	-68	S	7	rr	40	92	7	8	1	-	4-6	10	1500
13A	Tiree	988.7	-50	ESE	5	rr	40	92	7	-	2	-	10	10	1500
13B	Stornoway	994.7	-28	E	4	c	42	65	8	5	1	-	7-8	9+	2500
15	Dalwhinnie	994.1	-54	SE	4	ss	34	92	6	6	-	-	10	10	1500
	Aberdeen	996.5	-36	NE	1	c	40	92	6	5	7	-	4-6	7-8	450
	Wick	996.6	-36	SE	4	c	43	75	8	5	3	6	2-3	7-8	1500
16	Lerwick	999.0	-20	NW	2	bc	41	85	8	5	3	-	4-6	4-6	1500
17	Blacksod Point	980.0	-64	SSE	5	rr	45	97	7	6	-	-	10	10	450
18	Malin Head	984.7	-86	SSE	5	c/r	40	85	7	6	-	4	4-6	9	1500
	Aldergrove	987.0	-92	SSE	6	ir_o	40	92	6	6	-	-	10	10	800
19	Birr Castle	984.0	-56	S	2	c/p	46	92	8	6	7	-	4-6	9	1500
20	Valentia Obsy. †	982.5	-40	SWW	8	ir_o	48	85	6	6	-	-	10	10	1500
	Roches Point	986.2	-32	W	6	ir	49	85	7	6	2	-	4-6	10	1500

OBSERVATIONS at 18h. G.M.T. 22nd January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0-12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0-10 (26)	Cloud Amount Total 0-10 (27)	Height of Base (feet) (28)	State of Ground 0-9 (29)	Sea 0-9 (30)
London (Kew)	992.6	-40	SSW	4	z_o	49	85	6	5	-	-	7-8	7-8	1500	1	*
Croydon	994.2	-42	SSW	5	bc/r	48	92	7	5	-	-	4-6	4-6	1500	1	*
S. Farnborough	993.2	-36	SW	6	z_o	48	85	6	-	7	-	0	2-3	-	1	*
Boscombe Down	992.5	-20	WSW	6	d/r	47	85	7	5	2	-	4-6	7-8	1500	1	*
Calshot (Sthmtn.)	995.9	-10	SW	6	ir	50	75	6	6	2	-	9	9+	800	1	4
Lympne	997.1	-40	SSW	6	$r_o r_o$	46	97	4	6	2	-	9+	10	450	1	§ 2
Manston	995.4	-60	SSW	6	ir	47	92	6	6	2	-	9	10	800	1	*
Shoeburyness	994.2	-60	SSW	5	c/r	48	85	8	5	-	-	7-8	7-8	1500	1	*
Felixstowe	994.2	-56	S'E	6	$r_o r_o$	45	97	6	-	2	-	10	10	800	1	5
Gorleston	994.3	-40	SSW	7	$r_o r_o$	44	92	6	6	-	-	10	10	1500	1	4
Mildenhall	989.7	-64	S'E	6	$r_o r_o$	46	92	7	5	-	-	9+	9+	2500	1	*
Cranwell	988.4	-38	SSE	4	$r_o r_o$	43	97	6	5	2	-	9+	10	1500	1	*
Birmingham	987.8	-48	SW	4	c/r	45	92	7	6	-	-	9	9	800	1	*
Upper Heyford	990.7	-48	SSE	4	bc	47	85	7	5	-	-	2-3	2-3	450	1	*
Ross-on-Wye	988.1	-26	SW	5	ir_o	46	85	6	6	-	-	10	10	800	1	*
Hartland Point	986.4	-34	W	9	rr	47	85	7	6	2	-	9+	10	800	1	5
Bristol	991.0	-14	SW	5	pr	48	75	7	5	-	-	9	9	1500	1	*
Portland Bill	993.7	-28	WSW	6	bc	49	92	7	5	-	-	4-6	4-6	2500	1	5
Plymouth	992.3	-22	SW'W	7	c/pr	50	75	6	9	7	-	9+	10	800	1	5
The Lizard	993.6	-20	W'S	8	c	49	85	6	8	2	-	7-8	9+	2500	1	5
Scilly (St. Mary's)	992.0	-30	W	9	c/pr	49	75	6	8	6	-	7-8	10	1500	1	5
Guernsey	998.9	-14	WSW	5	bc/pr	48	85	7	5	-	-	4-6	4-6	2500	1	4
Pembroke	983.7	-24	W	9	rr	47	85	6	8	-	-	10	10	800	1	5
Holyhead	980.1	-36	SW'W	5	c	47	92	7	9	7	-	7-8	10	1500	1	2
Chester (Sealand)	983.8	-40	SE'E	2	rr	45	92	6	6	2	-	9+	10	2500	1	*
Manchester	984.6	-62	S'E	4	c	46	85	7	5	7	-	7-8	10	1500	1	*
Spurn Head	988.0	-56	SSE	6	d	42	97	6	5	-	-	10	10	1500	1	4
Catterick	985.7	-60	SE	4	ir_o	40	97	5	6	2	-	9	10	450	1	*
Tynemouth	987.8	-40	S	5	c	42	85	7	6	-	-	10	10	800	1	2
St. Abbs Head	987.2	-30	SE	6	rr	41	97	7	3	2	·	7-8	10	1500	1	4
Leuchars	987.8	-40	ESE	2	$r_o r_o$	42	97	7	6	-	-	10	10	800	1	*
Renfrew (Abbots I.)	985.6	-26	ENE	4	d/r	41	92	5	5	-	-	10	10	2500	1	*
Eskdalemuir	984.9	-46	ESE	4	c	38	85	6	6	2	-	7-8	10	800	1	*
Point of Ayre	980.5	+38	S'E	6	$r_o r_o$	44	97	6	8	1	·	7-8	10	1500	1	3
Tiree	983.7	+8	E'S	5	c	42	92	7	8	-	·	9+	9+	1500	1	4
Stornoway	990.1	+12	E	5	rr	41	85	7	8	7	1	4-6	7-8	2500	1	2
Dalwhinnie	987.7	+36	S	5	c	36	92	5	8	1	·	4-6	10	1500	4	*
Aberdeen	989.9	+42	ESE	4	ir_o	43	92	6	6	2	1	7-8	10	800	1	2
Wick	991.5	+26	SE	5	c	43	85	8	5	2	-	7-8	10	1500	1	2
Lerwick	996.8	-6	E	3	c/phr	39	75	8	8	7	·	4-6	7-8	1500	1	*
Blacksod Point	977.9	+12	-	0	rr	48	97	7	6	-	·	10	10	450	1	3
Malin Head	980.3	-44	SSE	4	c	43	92	6	6	-	-	9	9	2500	1	4
Aldergrove	979.5	-22	E'S	2	id_o	42	97	6	6	-	-	10	10	450	1	*
Birr Castle	979.2	-14	S	1	ir	46	97	7	6	2	-	4-6	10	800	1	*
Valentia Obsy. †	983.6	+28	W'N	7	pr	51	92	6	6	-	-	10	10	1500	1	5
Roches Point	981.8	-18	WSW	5	ir	49	92	7	6	2	-	4-6	9+	1500	1	3

PAST 24 HOURS. — Weather

Stations	7h.—18h. 22nd (37)	18h.—18h. 22nd (38)	18h 22nd to 1h. 23rd (39)	1h.—7h. 23rd (40)
London (Kew)	$cbcepr_o$	$cir_o bcm_o$	$bcm_o cpr_o$	$cprcm_o$
Croydon	$c⊕cir_o$	iDddrr	$ir_o pr_o r_o$	$c\ id_o d_o$
S. Farnborough	$bccr_o$	cd i R bc	$bcir_o$ irc	$bcir_o$ irc
Boscombe Down	$cr_o rd_o d$	$d_o d\ ir_o bc$	bccir	rrcirc
Calshot (Sthmtn.)	$bccr^f m_o$	cDrprbc	$bccir_o$	rrc
Lympne	$om_o c$	$fd_o r_o r_o$	bcprcrr	$pr_o id_o$
Manston	$bccm_o$	$cir_o dd$	$cir_o r_o r_o m$	$cir_o pr_o$
Shoeburyness	cbcc	$cr_o cr_o c$	b	$b, cr_o r_o$
Felixstowe	$om_o bcc$	$d_o d_o or_o r_o$	$r_o r_o bccir_o$	$cr_o r_o d_o d_o$
Gorleston	$cz_o mz_o$	$cz_o r_o r_o q$	$or_o PRbcc$	$cpr_o or_o r_o$
Mildenhall	$cm_o c$	$cir_o cr_o r_o$	$cir_o cm$	$ir_o om_o ir_o m$
Cranwell	omdcm	$cm_o rr_o r_o$	o rr	$oror_o$
Birmingham	$cbccpr_o$	cir	pr	orr
Upper Heyford	$bccm_o c$	cirRbc	$cir_o m_o$	$cir_o m_o$
Ross-on-Wye	bccorc	dqrqirq	$r_o qrqr_o$	$ir_o c$
Hartland Point	rrc	Rrrc	crroq	
Bristol	$cRrd_o$	$d_o rr_o cq$	rR cRq	Rcprcq
Portland Bill	$orrz_o$	orrc	oR	o r
Plymouth	crrddrr	cprPhcg	cpr_o	$cPR\ pr_o m_o$
The Lizard	crrpr	cprcq	$cirp_o$	orrc
Scilly (St. Mary's)	oddcr	$cp_o cp$	prorr	orrir
Guernsey	$crrr_o$	rq prq		
Pembroke	qDDirmc	cirmirq	irqco	cirq
Holyhead	rrirc	irc	$cbcr_o c$	c
Chester (Sealand)	$bccmr_o$	$cir_o rrm$	$crrm_o$	$crrm_o$
Manchester	$cm_o mr_o$	$cir_o mc$	$ccr_o m_o$	$cr_o m_o$
Spurn Head	cm	$cprd_o$	bcorr	$rrom_o$
Catterick	$cid_o om$	$irrrm_o$	$om_o rrr_o$	$r_o r_o ir_o m_o$
Tynemouth	bcomo	oiro	oir	oir_o
St. Abbs Head	c	cRrq	c	mrfqc
Leuchars	cxcjfc	$cir_o or_o r_o$	$r_o r_o iR\ ir_o$	$r_o r_o ir_o c$
Renfrew (Abbots I.)	$cmfir_o$	$Fr_o r_o mm$	$rr_o cbc$	bccprq
Eskdalemuir	$r_o ccr$	$rrir_o$	cir	cc ir
Point of Ayre	bcdrr	rrr_o	$r_o r_o c$	rrc
Tiree	cdr	orrdc	$cd_o c$	cd
Stornoway	c	crr	crr	crrpr
Dalwhinnie	csoss	cssir	*	cir
Aberdeen	bcfc	$ccir_o$	$ir_o rr$	$r_o r_o$
Wick	bcc	c	$cr_o rr$	$rrr_o c$
Lerwick	bc	bccphr	c	cir rr
Blacksod Point	prcq	ir	prcq	PRcq
Malin Head	$cir_o c$	$cid_o c$	$cid_o cr_o rc$	$cr_o rc$
Aldergrove	$rrr_o ir_o ir_o$	$ir_o id\ m_o$	$cm_o id_o c$	$prcpr_o$
Birr Castle	cir	cir	cir	cir
Valentia Obsy. †	$rrirr_o$	$d\ ircp_o$	$pr_o cr_o r_o$	$r_o r_o cpr_o c$
Roches Point	rrdrir	cir	cprqc	cir

EXPLANATION OF FIGURES, LETTFRS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog ,, less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s_o, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s_o/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
⊕, Solar halo. lunar halo. Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:— Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As: Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. ,, wet.
2 .. ,, flooded.
3 .. ,, frozen hard and dry.
4 .. ,, partly covered with snow or hail.
5 .. ,, covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. ,, covered with snow, less than 6 ins., deep but ground not frozen.
8 .. ,, covered with snow, less than 6 ins., but ground frozen.
9 .. ,, covered with snow greater than 6 ins. deep.

NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

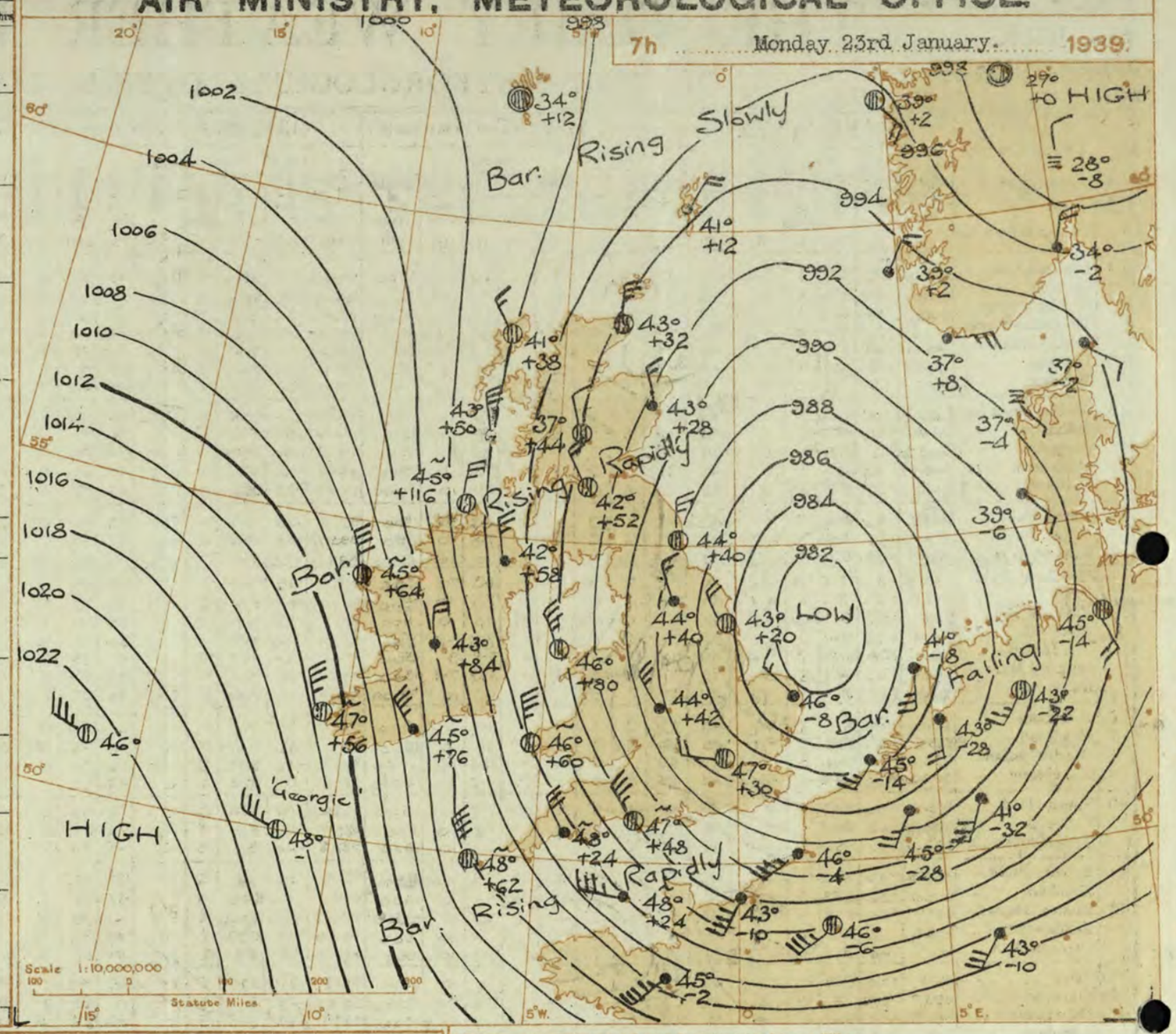
† See disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 22nd January 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F.) Min. 9h. 21st. to 9h. 22nd	Temperature. (°F.) Max. 9h.—17h. 22nd	Rainfall. (mm.) Night. 17h. 21st. to 9h. 22nd	Rainfall. (mm.) Day. 9h.—17h. 22nd	Sunshine (hrs) Sunrise to Sunset. 22nd.
1	Tunbridge W.	bcod	odr	43	47	Trace	1	0.0
	Bournemouth	or	rco	40	53	1	3	0.0
	Ventnor ...	orou	orc	43	49	0.3	3	0.0
	Southsea ...	coir	oire	42	50	0.2	3	0.0
	Bognor Regis	oir	oir	41	49	-	3	0.0
	Littlehampton	bec	crebe	42	52	-	2	0.1
	Worthing ...	co	oirq	42	49	-	2	0.1
	Brighton ...	bec	cpepc	43	49	Trace	1	0.2
	Eastbourne† ...	beco	oiror	44	48	Trace	1	1.2
	Hastings† ...	beco	orro	44	52	0.3	1	1.2
	Folkestone ..	ocbea	oro	46	48	Trace	0.3	0.7
	Dover ...	cbec	codo	46	49	Trace	0.3	0.1
	Deal	obo	od	46	48	Trace	Trace	0.7
	Ramsgate ...	c	or	45	49	Trace	1	0.0
	Margate ...	cbc	ed	45	50	Trace	0.3	0.5
2	Southend ...	ebco	or	44	48	-	Trace	1.1
	Clacton-on-Sea	cbec	coird	42	47	Trace	0.0	0.4
	Dovercourt ...	bec	oer	43	48	1	Trace	0.3
	Lowestoft ...	oc	cor	43	46	Trace	0.2	0.0
	Skegness ...	moco	coro	39	45	0.5	Trace	0.0
	Mablethorpe...	omo	cor	40	45	0.3	0.3	0.2
	Cleethorpes ...	c	cor	41	45	1	Trace	0.0
3	Leamington S.	oc	oro	40	47	0.4	2	0.0
4	Cheltenham†	oeir	coir	39	49	1	6	0.5
5	Bath	crr	cirq	41	50	0.5	4	0.0
	Weymouth ...	cr	cir	45	52	0.4	4	0.0
	Jersey ...	crc	bcrc	47	53	0.6	2	0.3
	Torquay ...	bordq	cpberkp	43	53	Trace	4	0.5
	Falmouth	orocp	rcoqc	42	53	3	2	0.8
	Penzance ...	rqir	rqcq	43	53	5	1	0.8
	St. Ives ...							
	Bude... ...	cpbe	cpq	42	54	3	2	0.5
	Ilfracombe ...	coror	oir	43	53	2	4	0.0
6	Aberystwyth	ebepr	prc	40	49	-	3	0.0
7	Llandudno ...	eir	rer	39	48	0.2	3	0.2
	Colwyn Bay...	oprrp	poerr	39	47	0.3	3	0.2
	Rhyl	cpr	cprr	37	47	0.2	3	0.2
8	Wallasey ...	op	pc	39	44	0.3	0.5	0.0
	Southport ...	opom	orro	38	43	0.6	1	0.0
	Blackpool ...	omr	oirm	39	42	0.3	2	0.0
	Morecambe ...	bed	edo	38	44	0.3	2	0.0
9	Ilkley... ...	o	rr	42	43	1	3	0.0
	Harrogate ...	oc	coir	41	42	1	1	0.0
10	Berwick-on-T.	co	iro	35	42	1	0.3	0.0
11	Dunbar ...	bem	cpr	36	42	1	0.5	0.0
12	Troon... ...	ocop	poc	34	42	1	0.3	0.0
	Douglas ...	cirx	cr	36	45	Trace	3	0.0

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.

AIR MINISTRY, METEOROLOGICAL OFFICE.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 23rd January, 1939.

Districts.	Forecast
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Wind north, strong to gale at first, moderating; showers at first; rain later; cooler than of late with ground frost at night.
5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ...	Wind north to northwest, gale locally at first, moderating; showers today, fair later; average day temperature; ground frost at night.
10 N.E. England 11 S.E. Scotland	As 1 - 4.
12 S.W. Scotland & Isle of Man.	As 5 - 9.
13 A. W. Scotland. B. N.W. Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Wind north to northwest, moderate; mainly fair apart from a few scattered showers; average temperature; ground frost at night.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 5 - 9.

GENERAL INFERENCE.

A depression centred over the southern part of the North Sea is moving eastwards and filling up. It will be followed by a ridge of high pressure. There will be occasional rain or heavy showers clearing rapidly from western districts and more slowly from the east. Strong northerly winds will moderate during the evening and the night will be fine with ground frost.

FURTHER OUTLOOK.

Remaining fair for a time. Rain probably spreading from the west later.

Times of Issue of Gale Warnings.

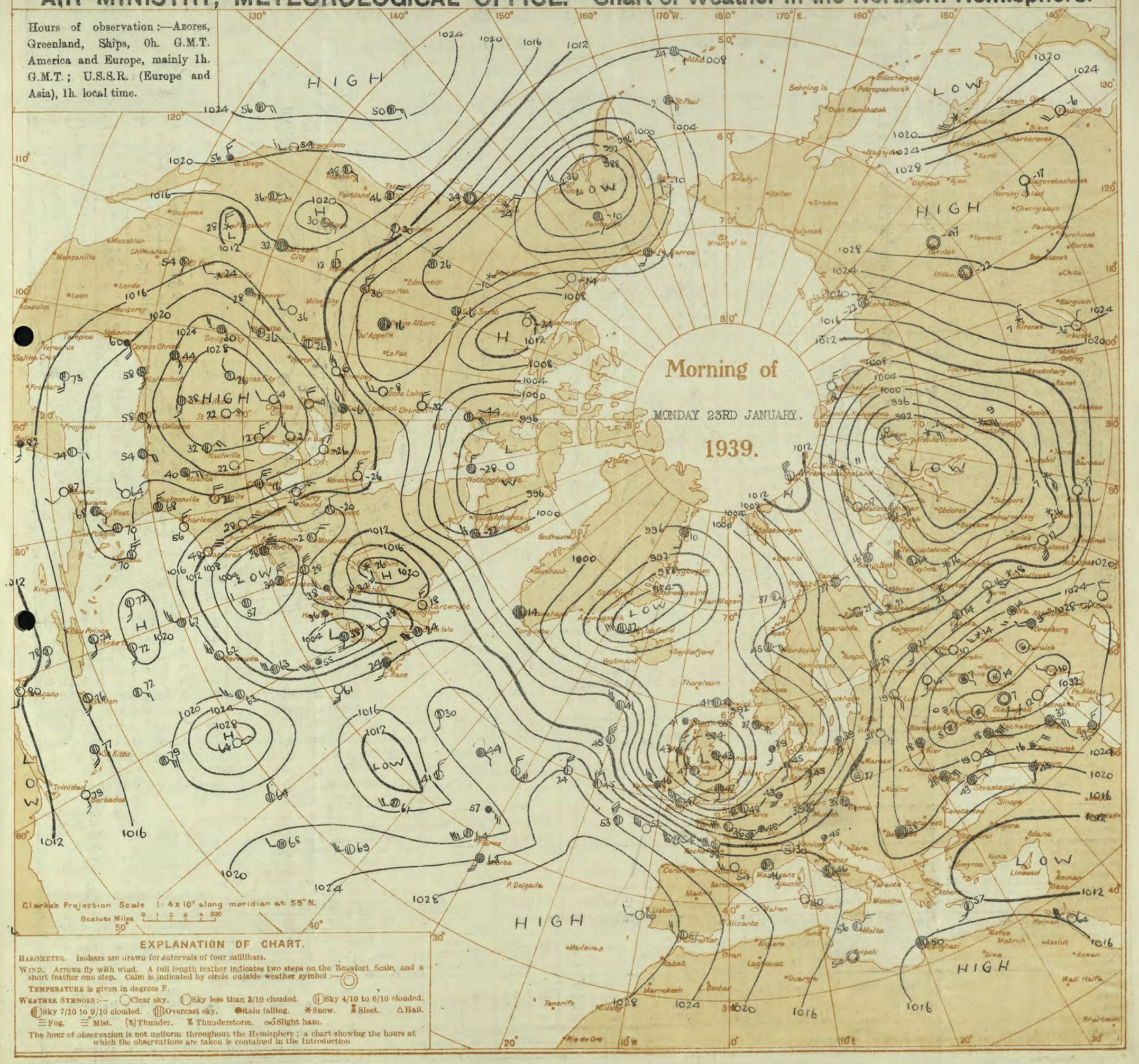
South Cone hoisted at 0200 on 22/1/39 in districts 5, 6, 7, 8, 12, 17, 18, 19 and 20.
at 0830 on 22/1/39 in districts 1, 10, 11 and 15.

Forecasts issued at 1000 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S
Director.

H.M. Stationery Office Press, Kingsway, W.C.2.

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 23rd January, 1939.

No. 28186

OBSERVATIONS at 1 hr. G.M.T. 23rd January

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	985·2	-44	SSW	4	c/r	47	92	8	5	–	–	7-8	10	2500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	987·7	-56	SW	6	ir.	45	97	7	5	–	–	10	10	450
	Manston ...	154	986·5	-46	SSW	5	r.r.	46	92	6	6	–	–	10	10	1500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	984·5	-46	SSW	4	c	44	92	6	8	–	–	9	9	2500
	Mildenhall ...	19														
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	985·4	+18	NW	8	o	48	92	6	–	2	–	10	10	1500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	985·6	-20	W	7	RR	49	92	7	5	–	–	10	10	800
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240														
	Scilly (St. Mary's)	163	994·5	+38	NWN	10	c/pr	47	85	7	8	2	–	7-8	10	1500
	Guernsey ..	175	994·0	0	W	7	ir	47	85	4	5	–	–	10	10	1500
6	Pembroke ...	142	983·0	-2	NWN	9	c/r	48	92	6	8	–	–	10	10	800
7	Holyhead ...	26	981·6	+26	NWN	4	c	47	92	7	8	2	–	4-6	10	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	981·6	-20	S	3	rr	43	97	7	5	–	–	10	10	800
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	981·4	-8	SSE	2	c/r	45	97	6	–	2	–	10	10	1500
11	St Abbs Head ..	280	983·3	0	NE	4	c	42	97	8	3	2	–	7-8	10	2500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	981·6	+12	ENE	4	o	43	92	7	5	–	–	10	10	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	991·2	+20	NE	4	r.r	41	85	7	5	2	–	4-6	10	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	988·2	-4	E	4	rr	44	97	7	5	2	–	7-8	10	1500
16	Lerwick ...	156	992·1	-12	ENE	5	c	41	75	8	8	7	–	4-6	7-8	1500
17	Blacknod Point	18	993·5	+84	NNW	8	cq	46	85	7	9	–	–	9	9	800
18	Malin Head ...	84	988·0	+60	N.	3	r.r.	43	85	6	9	2	–	4-6	10	1500
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	999·5	+50	WNW	8	RR	46	97	6	5	–	–	10	10	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 23rd January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	987·8	+24	WN	3	z.	48	85	6	5	1	–	7-8	10	1500	1	*
Croydon ...	987·7	+30	WN	4	c/d	47	97	6	5	7	–	4-6	10	800	1	*
S. Farnborough	988·7	+38	WNW	4	c/r	48	85	7	5	3	1	4-6	7-8	1500	1	*
Boscombe Down	990·2	+50	WNW	4	c	47	85	8	5	–	–	9	9	2500	1	*
Calshot (Sthmtn.)	991·3	+20	WNW	5	c	48	85	8	7	7	–	4-6	9	1500	1	2
Lympne ...	987·2	+14	W	4	id.	45	97	7	5	–	–	9+	9+	1500	1	4
Manston ...	985·4	+16	WS	4	o/pr	47	92	7	5	–	–	10	10	1500	1	*
Shoeburyness ...	988·6	+18	W	4	c/r	48	92	7	5	–	–	9	9	2500	1	*
Felixstowe ...	984·6	+16	W	4	id.	47	92	6	6	2	–	9	10	1500	1	3
Gorleston ...	982·8	-8	NWW	3	r.r.	46	97	6	6	–	–	10	10	800	1	3
Mildenhall ...	984·9	+36	WNW	4	z.	45	92	6	5	2	–	9+	10	1500	1	*
Cranwell ...	986·0	+44	WNW	4	ir.	44	92	6	–	2	–	10	10	450	1	*
Birmingham ...	988·7	+42	NW	5	rr	44	92	6	6	–	–	10	10	800	1	*
Upper Heyford	988·5	+50	WN	3	c/r	45	92	7	5	–	–	9+	9+	1500	1	*
Ross-on-Wye	991·3	+50	W	5	cq	47	75	6	5	–	–	10	10	2500	1	*
Hartland Point																
Bristol ...	991·7	+76	WNW	6	c	47	75	7	5	–	–	9	9	1500	1	*
Portland Bill ...	992·5	+48	NW	7	c	47	92	7	5	2	–	4-6	10	1500	1	5
Plymouth ...	998·6	+24	NW	6	pr	48	85	6	9	–	–	10	10	800	1	4
The Lizard ...																
Scilly (St. Mary's)	1003·4	+62	NWN	8	c	48	75	6	8	6	–	7-8	9+	1500	1	5
Guernsey ..	997·0	+24	WN	7	ir.	48	92	6	8	–	–	10	10	800	1	5
Pembroke ...	997·4	+60	NNW	7	cq	46	85	7	8	–	–	9+	9+	1500	1	4
Holyhead ...	993·3	+80	NWN	7	c	46	85	7	8	–	–	9+	9+	2500	1	3
Chester (Sealand)	991·4	+54	WNW	6	c/r	43	92	6	6	2	–	9	10	1500	1	*
Manchester ...	989·0	+54	NWW	4	z.	43	92	6	5	–	–	10	10	1500	1	*
Spurn Head ...	984·1	+20	NWN	4	o	43	97	5	5	–	–	10	10	800	1	3
Catterick ...	987·1	+40	NNW	3	ir.	44	92	5	6	–	–	10	10	800	1	*
Tynemouth ...	987·2	+40	N	5	c/r	44	92	7	6	–	–	10	10	800	1	2
St Abbs Head ..	989·0	+30	NNW	5	rr	41	97	7	3	2	1	7-8	10	2500	1	3
Leuchars ...	991·0	+40	WNW	2	c/r	41	92	7	5	2	–	7-8	10	800	1	*
Renfrew (Abbots I.)	993·5	+52	NWN	4	s/pr	42	85	8	5	–	–	9+	9+	2500	1	*
Eskdalemuir ...	990·9	+50	NW	4	ir	39	85	6	6	2	–	2-3	10	800	1	*
Point of Ayre...	992·9	+38	NW	5	c	44	85	8	5	–	–	9+	9+	1500	1	3
Tiree	997·9	+50	NNW	6	id.	43	92	7	5	–	–	9+	9+	1500	1	*
Stornoway ...	988·2	+38	NW	3	c/pr	41	85	8	5	7	–	4-6	7-8	2500	1	2
Dalwhinnie ...	*	+44	NNW	2	c	37	85	7	8	2	–	7-8	10	2500	1	*
Aberdeen ...	991·1	+28	NW	3	r.r.	43	97	6	6	2	–	7-8	10	800	1	1
Wick ...	993·5	+32	N	5	c/r	43	97	7	5	2	–	7-8	10	1500	1	2
Lerwick ...	994·2	+12	NE	4	rr	41	92	8	6	2	–	4-6	10	800	1	*
Blacknod Point	1008·4	+64	NNW	8	c/r	45	75	7	9	–	–	10	10	800	1	4
Malin Head ...	1000·0	+116	N	5	c/r	45	85	7	6	–	–	7-8	7-8	2500	1	4
Aldergrove ...	996·8	+58	NNW	5	pr	42	85	7	8	–	–	9+	9+	1500	1	*
Birr Castle ...	1003·9	+84	NW	4	ir	43	92	7	6	2	–	7-8	10	800	1	*
Valentia Obsy. †	1013·7	+56	NWN	7	c	47	65	6	9	–	–	7-8	7-8	1500	1	6
Roches Point	1006·9	+76	NWW	7	ir	45	92	7	6	2	–	7-8	10	1500	1	5

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 22½ Hrs. (36)
London (Kew)	49	47	43	1	1	0·4
Croydon ...	48	44	43	9	2	0·6
S. Farnborough	49	45	43	2	1	0·0
Boscombe Down	49	44	41	3	3	0·0
Calshot (Sthmtn.)	50	47	45	2	5	0·0
Lympne ...	46	45	41	1	2	0·8
Manston ...	49	45	42	0·5	1	0·5
Shoeburyness ...	48	46	41	0·2	0·5	1·1
Felixstowe ...	47	44	42	0·2	1	0·3
Gorleston ...	47	42	40	0·1	7	0·0
Mildenhall ...	46	45	42	0·2	2	0·1
Cranwell ...	46	43	41	1	5	0·1
Birmingham ...	45	42	41	2	7	0·0
Upper Heyford	47	43	41	5	2	*
Ross-on-Wye	48	45	43	5	3	0·0
Hartland Point				4		
Bristol ...	50	44	43	3	7	0·0
Portland Bill ...	50	46	*	3	3	*
Plymouth ...	52	45	45	6	7	0·1
The Lizard ...			*	4		
Scilly (St. Mary's)	53	45	*	3	4	0·9
Guernsey ..	52	45	43	6	7	0·0
Pembroke ...	50	45	*	7	8	0·0
Holyhead ...	48	44	43	4	Tr	0·0
Chester (Sealand)	45	43	41	2	3	0·0
Manchester ...	46	42	40	0·5	0·1	0·0
Spurn Head ...	44	42	*	1	4	0·0
Catterick ...	43	40	39	3	2	0·0
Tynemouth ...	43	42	40	1	3	0·0
St Abbs Head ..	41	40	*	2	2	*
Leuchars ...	42	40	37	1	3	0·0
Renfrew (Abbots I.)	41	40	36	1	1	0·0
Eskdalemuir ...	40	37	36	3	0·6	0·0
Point of Ayre...	44	42	*	3	1	0·0
Tiree	44	41	38	2	0·1	0·0
Stornoway ...	42	39	*	0·3	3	0·1
Dalwhinnie ...	37	34	33	5	2	0·0
Aberdeen ...	43	40	39	0·1	11	0·4
Wick ...	44	41	*	–	5	*
Lerwick ...	44	38	*	Tr	4	0·4
Blacknod Point	49	41	*	5	10	*
Malin Head ...	46	41	*	1	3	0·0
Aldergrove ...	43	39	37	3	2	0·0
Birr Castle ...	48	41	35	5	12	0·2
Valentia Obsy. †	52	43	41	5	6	0·0
Roches Point	49	44	*	6	3	*

LONDON OBSERVATIONS

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except for rainfall which is 9h—18h.

	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon (24 hrs. ended 9h.)	Weather Night (24 hrs. ended 9h.)	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. Yesterday	Humidity 15h. G.M.T % Yesterday	Humidity 9h. G.M.T % To-day	Visibility 9h.
Kew...	18	dbccpr.	cir.bcm	bcm.pr.	49	47	43	1	1	0·4	*	*	6
Croydon	217	c ⊕cir.	iDddrr	r.cvidd.	48	44	43	2	2	0·6	*	*	6
Greenwich (Royal Observatory)...	149	c	cdcr	cir	48	45	40	1	1	0·6	86	84	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0·0	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	50	45	42	2		0·1	83	89	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*	49	44	42	–	2	*	84	92	*
Camden Square	110	b	c	*	49	44	41	0·4	1	*	*	86	*
Kensington	80	c	bccp	*	49	47	43	0·6	2	0·4	At 18h. 97	89	*
Hampstead Observatory	450	bc	or	bcor	47	44	41	2	1	0·3	*	91	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 23rd

South Kensington. Max.	Time.	Min.	Time.
<0·3	whole period.		

Kew Observatory. Max.	Time.	Min.	Time.
0·2	10-12h 22nd	<0·1	0-5h 23rd

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 22nd January Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 23rd January Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris						996·5	WSW	7	c	46		46		2
Brussels						988·1	SW	5	r.r.	45		*		*
Berlin	1005·4	S	4	o	46	998·2	S	4	r.r.	43	48	34	Tr	2
Zürich						1007·8	WNW	1	c/r	39		39		10
Rome	1016·3	–	0	bc	52	1012·1	SWS	5	ir.	54	*	*	–	1

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	<1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	> 75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1¼ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6½ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30.—Code for State of Sea.

0 Calm.	5 Very rough.
1 Smooth..	6 High.
2 Slight.	7 Very high.
3 Moderate.	8 Precipitous.
4 Rough.	9 Confused.

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY, LONDON, W.C.2.

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

† hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. ‖ Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 24th January, 1939.
No. 28187

OBSERVATIONS at 13h. G.M.T. 23rd January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Amount Low 0–10 (12)	Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	998.0	+36	NW'W	5	pr	48	65	6	5	7	–	7-8	9+	1500
	Croydon	997.9	+34	NW'W	5	ir₀	46	75	6	6	2	–	9	10	1500
	S. Farnborough	999.2	+42	WNW	5	c	46	75	8	5	3	–	9	9+	2500
	Boscombe Down	1001.5	+38	NW	6	c	47	73	8	8	4	–	7-8	9	1500
	Calshot (Sthmtn.)	1000.7	+48	WNW	7	c	47	75	8	7	7	–	7-8	9+	1500
	Lympne	996.7	+46	NW'W	5	ir₀	44	85	6	6	2	–	9	10	450
	Manston	994.5	+42	WNW	5	c/r	45	85	6	5	2	–	9	10	800
2	Shoeburyness	995.6	+34	WNW	4	ir₀	45	85	7	5	–	–	10	10	1500
	Felixstowe	993.6	+46	NW'W	4	r₀r₀	45	92	6	5	2	–	7-8	10	1500
	Gorleston	991.3	+22	NW'W	4	ir₀	45	92	6	6	–	–	10	10	1300
	Mildenhall	994.6	+50	WNW	5	r₀r₀	44	92	6	6	2	–	7-8	10	450
	Cranwell	996.8	+50	NW'W	5	z₀	44	85	6	5	–	–	9	10	800
3	Birmingham	1000.2	+40	NW	5	c	43	86	6	6	–	–	10	10	800
	Upper Heyford	999.8	+50	WNW	6	pr	44	85	9	5	7	–	9	9+	1500
4	Ross-on-Wye	1002.4	+40	WNW	5	cq	46	65	8	5	7	–	9	9+	2500
5	Hartland Point	1008.1	+52	NNW	8	c	46	73	7	5	–	–	9+	9+	1300
	Bristol	1003.4	+46	WNW	5	c	45	75	8	5	–	–	9+	9+	1500
	Portland Bill	1002.9	+40	NW	7	c	48	92	8	5	–	–	10	10	2500
	Plymouth	1009.1	+46	NW	7	c/pr	47	75	8	8	–	–	9+	9+	1800
	The Lizard	1012.4	+30	NW	8	c	47	85	6	8	6	–	7-8	7-8	1500
	Scilly (St. Mary's)	1014.9	+44	NW'N	7	bc	47	65	6	8	–	–	4-6	4-6	1300
	Guernsey	1007.0	+46	NW	7	cq	48	75	7	8	3	–	7-8	9	2500
6	Pembroke	1009.2	+34	NNW	8	cq	46	75	7	8	–	–	10	10	800
7	Holyhead	1004.3	+46	NW'N	8	c	46	85	7	8	8	–	9	9+	1500
	Chester (Sealand)	1001.7	+46	WNW	7	ir	45	85	6	6	2	–	9	10	1500
8	Manchester	999.5	+40	NW	6	pr	44	85	6	8	7	–	4-6	9+	1500
10	Spurn Head	993.5	+26	NW'N	6	cq	43	92	6	6	2	–	7-8	10	800
	Catterick	997.1	+40	NW	4	c/r	42	85	7	6	–	–	10	10	800
	Tynemouth	995.7	+40	NNW	5	c/r	43	85	6	6	–	–	10	10	800
11	St. Abbs Head	997.5	+30	N	6	c/r	43	75	8	9	2	–	7-8	10	1500
	Leuchars	1000.0	+42	NW	4	c	45	65	8	5	7	–	4-6	9	1500
12	Renfrew (Abbots I.)	1003.1	+42	NW'W	4	c	44	85	9	5	5	–	7-8	9+	4000
	Eskdalemuir	1000.5	+50	NNW	5	r₀r₀	41	75	6	6	2	6	4-6	9+	1500
	Point of Ayre	1004.0	+52	N'W	7	c	46	85	8	5	7	3	4-6	9+	2500
13A	Tiree	1007.7	+32	NW'N	7	c	45	85	7	8	7	–	4-6	7-8	1500
13B	Stornoway	1006.0	+20	NW	5	c/pr	40	92	7	5	7	–	4-6	9+	2500
15	Dalwhinnie	1004.0	+44	N	3	c	38	75	7	4	2	–	4-6	10	2500
	Aberdeen	998.8	+28	N'W	5	c	43	75	7	6	2	8	2-3	9+	1500
	Wick	1000.3	+30	NNW	4	c	43	73	8	5	7	8	7-8	9+	1500
16	Lerwick	998.2	+14	NW	3	ir₀	43	92	8	9	2	–	7-8	10	800
17	Blacksod Point	1017.2	+24	NW	7	c	46	75	8	9	–	–	7-8	7-8	800
18	Malin Head	1010.2	+34	N'W	5	cjp	45	75	8	2	6	–	4-6	7-8	4000
	Aldergrove	1008.1	+50	N'W	6	c/pr	43	75	7	8	–	–	4-6	7-8	1500
19	Birr Castle	1015.3	+48	WNW	4	bc	45	75	8	8	8	–	2-3	2-3	4000
20	Valentia Obsy. †	1021.6	+34	NNW	5	bcjp	47	55	8	9	–	–	4-6	4-6	2500
	Roches Point	1016.4	+38	N'W	6	bc	45	75	8	1	–	–	2-3	2-3	4000

OBSERVATIONS at 18h. G.M.T. 23rd January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Amount Low 0–10 (26)	Amount Total 0–10 (27)	Height of Base (feet) (28)
London (Kew)	1006.2	+50	WNW	5	c	45	75	7	5	–	–	9+	9+	1500
Croydon	1005.9	+48	NW'W	5	z₀	45	75	6	5	–	–	10	10	1500
S. Farnborough	1007.0	+40	NW	4	ir₀	44	85	7	5	–	–	10	10	1300
Boscombe Down	1009.2	+46	NW	5	c	45	75	8	5	–	–	9	9	2500
Calshot (Sthmtn.)	1008.9	+54	WNW	6	c/r	46	65	8	5	3	–	9	9+	1500
Lympne	1004.1	+42	NW	5	z₀	44	75	6	5	–	–	10	10	1500
Manston	1002.3	+42	NW'W	5	ir₀	44	85	6	5	2	–	9	10	1500
Shoeburyness	1003.7	+44	WNW	5	ir₀	44	85	7	5	–	–	10	10	1500
Felixstowe	1001.0	+28	NW	6	ir₀	45	85	6	5	2	–	9	10	800
Gorleston	998.3	+40	NW	6	o/pr	43	85	6	5	–	–	10	10	2500
Mildenhall	999.5	+50	NW'W	5	c/r	44	75	6	5	2	–	7-8	10	800
Cranwell	1004.1	+46	NW'W	5	c	43	75	7	5	–	–	7-8	7-8	1500
Birmingham	1008.5	+46	NW	5	c	42	75	7	5	–	–	9+	9+	1500
Upper Heyford	1007.6	+48	NW'W	5	c	43	75	7	5	7	–	9	9+	1500
Ross-on-Wye	1010.5	+40	WNW	5	bc/pr	44	65	6	5	–	–	4-6	4-6	1500
Hartland Point	1016.5	+44	NW	8	c	45	65	8	8	–	–	9	9	2500
Bristol	1011.1	+46	NW	6	bc	45	75	8	5	7	–	4-6	4-6	2500
Portland Bill	1010.7	+54	NNW	7	c	47	85	8	5	–	–	10	10	2500
Plymouth	1016.3	+36	NW	6	cq	47	55	6	5	–	–	7-8	7-8	1500
The Lizard	1018.3	+16	NW'N	6	bc	45	75	7	8	–	–	4-6	4-6	2500
Scilly (St. Mary's)	1020.7	+32	NW'N	7	bc	46	65	7	2	–	–	2-3	2-3	2500
Guernsey	1014.0	+44	NW	7	c/pr	46	75	7	8	–	–	7-8	7-8	2300
Pembroke	1017.3	+36	NNW	7	bcq	45	65	7	4	4	–	2-3	2-3	1500
Holyhead	1012.5	+42	NNW	8	bc	45	75	7	8	8	–	4-6	4-6	1500
Chester (Sealand)	1011.1	+56	WNW	6	c	44	85	8	9	2	–	9	10	2500
Manchester	1008.2	+48	NW'W	5	z₀	42	85	6	5	4	–	2-3	2-3	2500
Spurn Head	1000.6	+44	NW'N	7	cq	43	85	7	6	–	–	10	10	800
Catterick	1005.3	+44	NW	4	bc	42	65	8	–	4	–	0	2-3	–
Tynemouth	1003.2	+20	NNW	6	c	43	65	7	2	3	–	4-6	7-8	1500
St. Abbs Head	1004.6	+20	NW	6	cq	42	75	9	8	6	9	4-6	9	2500
Leuchars	1006.5	+38	WNW	6	c	42	75	9	5	4	6	4-6	9	4000
Renfrew (Abbots I.)	1009.7	+36	NW'W	4	c	41	85	8	4	4	–	4-6	9	4000
Eskdalemuir	1007.9	+36	NW'W	4	bc	39	75	6	5	–	6	2-3	4-6	1500
Point of Ayre	1010.8	+52	N'W	7	c	43	75	8	5	–	–	9+	9+	2500
Tiree	1013.2	+32	NW	6	bc	43	85	7	8	6	–	2-3	2-3	1500
Stornoway	1011.3	+24	WNW	4	bc	40	75	8	8	7	–	4-6	4-6	2500
Dalwhinnie	1007.7	+40	N	4	s	35	92	5	6	2	–	4-6	10	1500
Aberdeen	1005.0	+38	NNW	5	c	42	85	7	6	1	–	7-8	9	1500
Wick	1005.8	+22	NNW	5	c/pr	42	85	7	5	7	–	4-6	10	1500
Lerwick	1003.4	+22	N	4	c	40	75	7	8	2	–	7-8	10	800
Blacksod Point	1021.7	+32	NW	4	c	41	85	8	9	–	–	7-8	7-8	1500
Malin Head	1016.1	+56	NNW	5	bc	44	85	8	2	–	–	4-6	4-6	5700
Aldergrove	1014.8	+38	NW'W	3	bcjp	38	85	8	3	–	–	2-3	2-3	1500
Birr Castle	1020.0	+30	WNW	2	bc	39	85	8	5	–	–	4-6	4-6	2500
Valentia Obsy. †	1024.6	+14	NNW	4	b	44	65	9	2	–	–	1	1	2500
Roches Point	1022.1	+28	NW	5	bc	43	85	8	3	–	3	2-3	2-3	2500

PAST 24 HOURS.

Stations	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.–13h. 23rd (37)	Weather 13h.–18h. 23rd (38)	Weather 18h. 23rd to 1h. 24th (39)	Weather 1h.–7h. 24th (40)
London (Kew)	1	*	cm₀pr₀	cpr₀cm₀c	cbc	bcb
Croydon	1	*	cirir₀m₀	cir₀z₀	cbz₀bc	c,bbcb
S. Farnborough	1	*	cr₀c	pr₀d₀c	cir₀b	b
Boscombe Down	1	*	cir₀pr₀	cir₀c	cb	b
Calshot (Sthmtn.)	1	2	cbcc	cpr₀ir₀	bccir₀b	b
Lympne	1	§ 3	cd₀pr₀ir₀	cr₀cz₀	cbz₀	bz₀
Manston	1	*	cir₀pr₀m₀	cm₀ir₀	cbm₀	bbc
Shoeburyness	1	*	cprc	cir₀c	cir₀c	cbcc
Felixstowe	1	4	cid₀orr	or₀r₀m₀	oir₀m₀o	cbcc
Gorleston	1	3	or₀r₀ir₀q	oir₀cpr₀	coir₀q	or₀r₀q
Mildenhall	1	*	id₀r₀r₀ir	cir₀m₀	cm₀bcb	cbccm₀c
Cranwell	1	*	cir₀cm₀	cm₀r₀r₀ir	c,b	b
Birmingham	1	*	orpr₀	opr₀c	cpr₀bc	bcb
Upper Heyford	1	*	cr₀r₀cq	cpr₀q	cprbc	bcb
Ross-on-Wye	1	*	cqpccq	cq	bcqp₀b	b
Hartland Point	1	5	c	c	bcqb	bw
Bristol	1	*	cpr₀q	cqp₀bc	b	bc
Portland Bill	1	5	c	c	cqbcm₀b	bbcm₀
Plymouth	1	3	cPRphrq	ccq	bc	bc
The Lizard	1	3	cprcq	cqbc	bc	bc
Scilly (St. Mary's)	1	4	cirbc	bcy		
Guernsey	1	5	cirpr	cqpr₀	cqbc	
Pembroke	1	4	cq	cqbc	bcq	bc
Holyhead	1	4	pr₀c	cpr₀bc	bcb	b
Chester (Sealand)	1	*	crr₀m₀	crir₀pr	cpr₀b	bbc
Manchester	1	*	d₀d₀m₀dr₀	cpr₀bcm₀	bcm₀bz₀	bz₀bx
Spurn Head	1	5	midpr	qpr₀	cq	cq
Catterick	1	*	om₀mir₀c	cb	b	b
Tynemouth	1	3	oir₀	oir₀c	co	obc
St. Abbs Head	0	4	cqir₀	cq	cbcq	bcbq
Leuchars	1	*	cr₀r₀c	c	cbcb	bx
Renfrew (Abbots I.)	1	*	cpr₀c	cbcc	cb	bx
Eskdalemuir	1	*	cir₀r₀r₀	cr₀bc	bcpr₀	bcb
Point of Ayre	1	4	cq	cq	cbcbb	b
Tiree	0	5	idcpr	cphr	bcpr₀	bcpr₀
Stornoway	1	2	cpr	cpr	b,cphr	cpr
Dalwhinnie	4	*	cirrs	crs	*	cis
Aberdeen	1	3	r₀r₀c	c	cphr₀bcb	b
Wick	1	2	c	r₀phr	phrpr	phrrs
Lerwick	1	*	crrir₀	cir₀	cpr	bcc
Blacksod Point	1	3	phq	phcq	bc	pr₀bc
Malin Head	1	4	cprc	cpr₀bc	bcpr₀bc	bc
Aldergrove	1	*	prrpr₀ir₀	bcpHqpr₀b	pr₀bpr₀b	bb,cpr₀b
Birr Castle	1	*	cirbc	bc	bcb	bx
Valentia Obsy. †	1	4	phrbcy	phrqpr₀b	bpr₀bx	bxlcc
Roches Point	1	4	cirbc	bc	bcw	bc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s₀, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus
R, heavy rain. r₀, slight rain.
rr, continuous rain.
<, less than (for cloud height). gale.
⊕, Solar halo. ⦶ lunar halo. Aurora.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. „ wet.
2 .. „ flooded.
3 .. „ frozen hard and dry.
4 .. „ partly covered with snow or hail.
5 .. „ covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. „ covered with snow, less than 6 ins., deep but ground not frozen.
8 .. „ covered with snow, less than 6 ins., but ground frozen
9 .. „ covered with snow greater than 6 ins. deep.

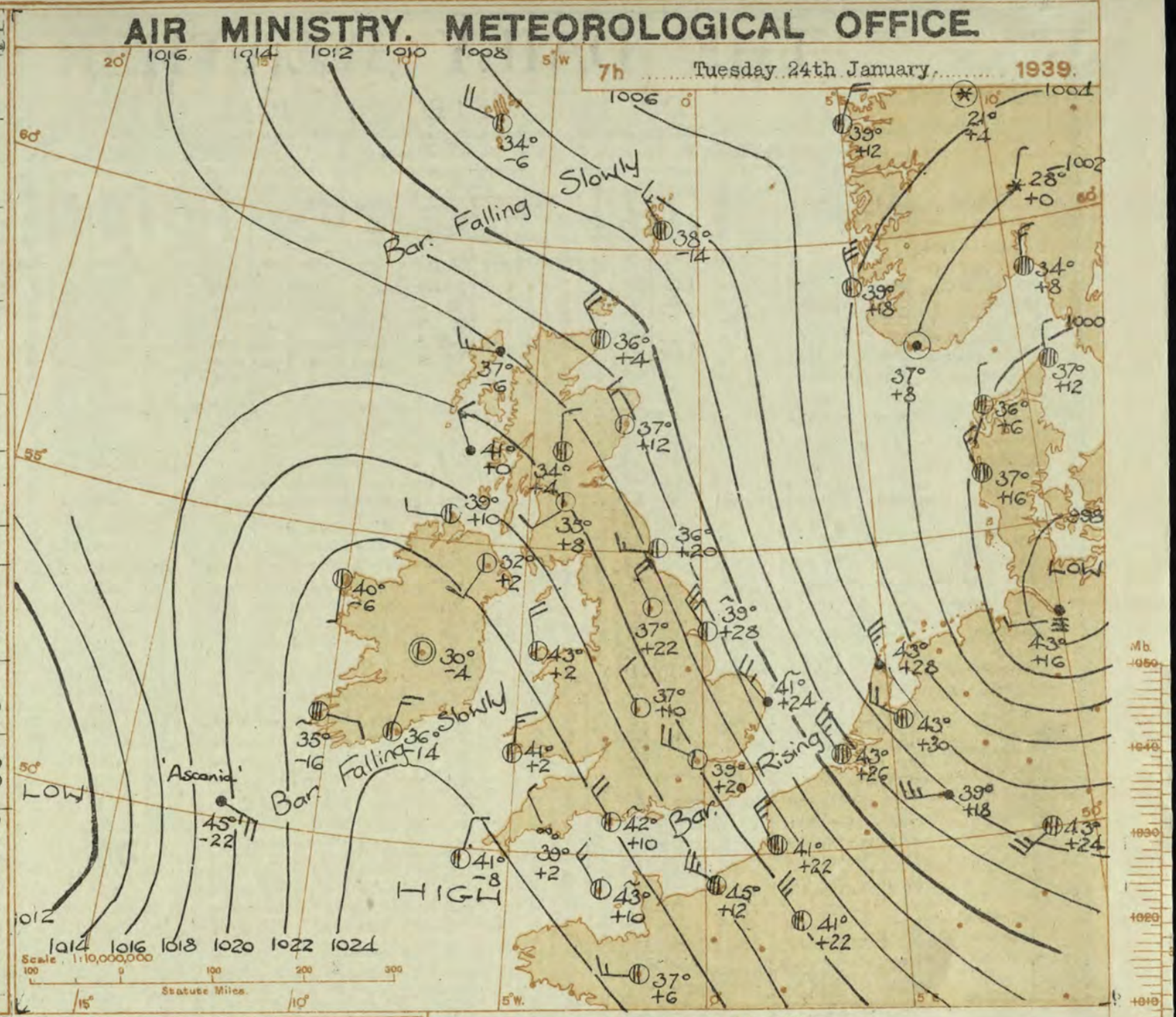
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

§ Sea disturbance reported from Dungeness.

REPORTS from HEALTH RESORTS for 23rd January 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F.) Min. 9h. 22nd to 9h. 23rd	Temperature. (°F.) Max. 9h.—17h. 23rd	Rainfall. (mm.) Night. 17h. 22nd to 9h. 23rd	Rainfall. (mm.) Day. 9h.—17h. 23rd	Sunshine (hrs) Sunrise to Sunset. 23rd
1	Tunbridge W.	oor	oro	43	46	5	1	0·0
	Bournemouth	ocbc	bcc	45	48	5	-	2·8
	Ventnor ...	robc	bccu	44	48	4	-	1·9
	Southsea ...	odoc	od.oc	43	50	4	Trace	0·7
	Bognor Regis	oirbc	bcc	42	49	5	Trace	0·6
	Littlehampton	ccp.c	cbcc	42	50	5	0·2	0·3
	Worthing ...	cr	cur.	45	49	5	Trace	0·3
	Brighton ...	bcpc	c	42	49	4	Trace	0·1
	Eastbourne† ...	copo	oco	46	49	7	0·3	0·6
	Hastings† ...	coro	opco	46	50	5	3	0·1
	Folkestone ...	m.or.o	or.o	44	49	3	0·5	0·0
	Dover ...	od	do	45	49	2	Trace	0·0
	Deal	o	o	45	48	3	-	0·0
	Ramsgate ...	cp	o	44	48	1	Trace	0·0
	Margate ...	cd	c	44	47	1	Trace	0·0
2	Southend ...	or.	or.	44	47	0·3	0·3	0·0
	Clacton-on-Sea	circ	cp.co	42	47	1	0·5	0·2
	Dovercourt ...	oc	roc	43	47	1	1	0·0
	Lowestoft ...	cir	cir	43	45	4	3	0·0
	Skegness ...	oor.	or.o	41	45	8	1	0·0
	Mablethorpe...	op	op	41	45	6	1	0·0
	Cleethorpes ...	cr	circ	42	45	4	0·3	0·0
3	Leamington S.	o	oro	43	46	3	1	0·0
4	Cheltenham†	co	coir.	41	46	3	0·3	0·0
5	Bath	gcp.	gcbc	43	48	5	Trace	0·5
	Weymouth ...	c	c	45	49	5	-	0·7
	Jersey ...	rqc	pqc	47	50	9	1	0·8
	Torquay ...	cr.bcq	bccq	46	49	7	Trace	2·6
	Falmouth	orqrc	bcrqc	45	48	11	1	3·1
	Penzance ...	qrcbc	qcbcc	45	49	9	-	3·0
	St. Ives ...							
	Bude... ...	cpbc	bc	38	49	5	0·5	0·0
	Ilfracombe ...	rro	occ	44	48	11	-	0·0
6	Aberystwyth	prc	c	44	49	6	1	0·0
7	Llandudno ...	cir	r.cc	41	46	3	1	0·0
	Colwyn Bay...	qrop	pocc	41	46	6	1	0·0
	Rhyl	cipr.	cq	39	47	2	0·6	0·0
8	Wallasey ...	cr	rcbc	40	44	2	1	0·0
	Southport ...	cp.cq	pqcbc	39	44	2	0·6	0·0
	Blackpool ...	coip.	copbc	40	44	2	0·3	0·0
	Morecambe ..	rbc.	bc	39	45	3	Trace	0·0
9	Ilkley... ...	rod.o	c	40	44	3	Trace	0·0
	Harrogate ...	coir.	cir.b	39	43	3	0·4	0·5
10	Berwick-on-T.	or.	rc	33	44	2	1	0·7
11	Dunbar ...	cpr.	cpr.	38	45	5	0·5	0·0
12	Troon... ...	oco	occoc	38	43	0·3	-	0·7
	Douglas ...	cpr.	cpr.q	39	45	1	Trace	0·1

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.-9h.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 24th January, 1939.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Wind light variable becoming moderate southerly tomorrow; fine to-day apart from local fog to-night, rain spreading from west tomorrow; average day temperature; frost at night.
5 S.W. England 6 South Wales ...	Wind freshening from south; fine at first, some rain to-night; average day temperature; mild night.
7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland 12 S.W. Scotland & Isle of Man.	As 1 - 4.
13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Wind northwest, light or moderate, becoming variable; mainly bright apart from local sleet showers; average day temperature, frost at night.
17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind freshening from south or southeast; rain spreading from the west; becoming mild.

GENERAL INFERENCE.

A ridge of high pressure over Ireland is moving eastwards before a depression 600 miles to the west of Ireland. Rain will spread slowly across the country but will only affect Ireland and extreme western districts of England and Wales by midnight. Over the rest of the country to-day will be fine apart from local sleet showers in Scotland and patches of fog forming tonight in the Midlands and eastern counties.

FURTHER OUTLOOK.

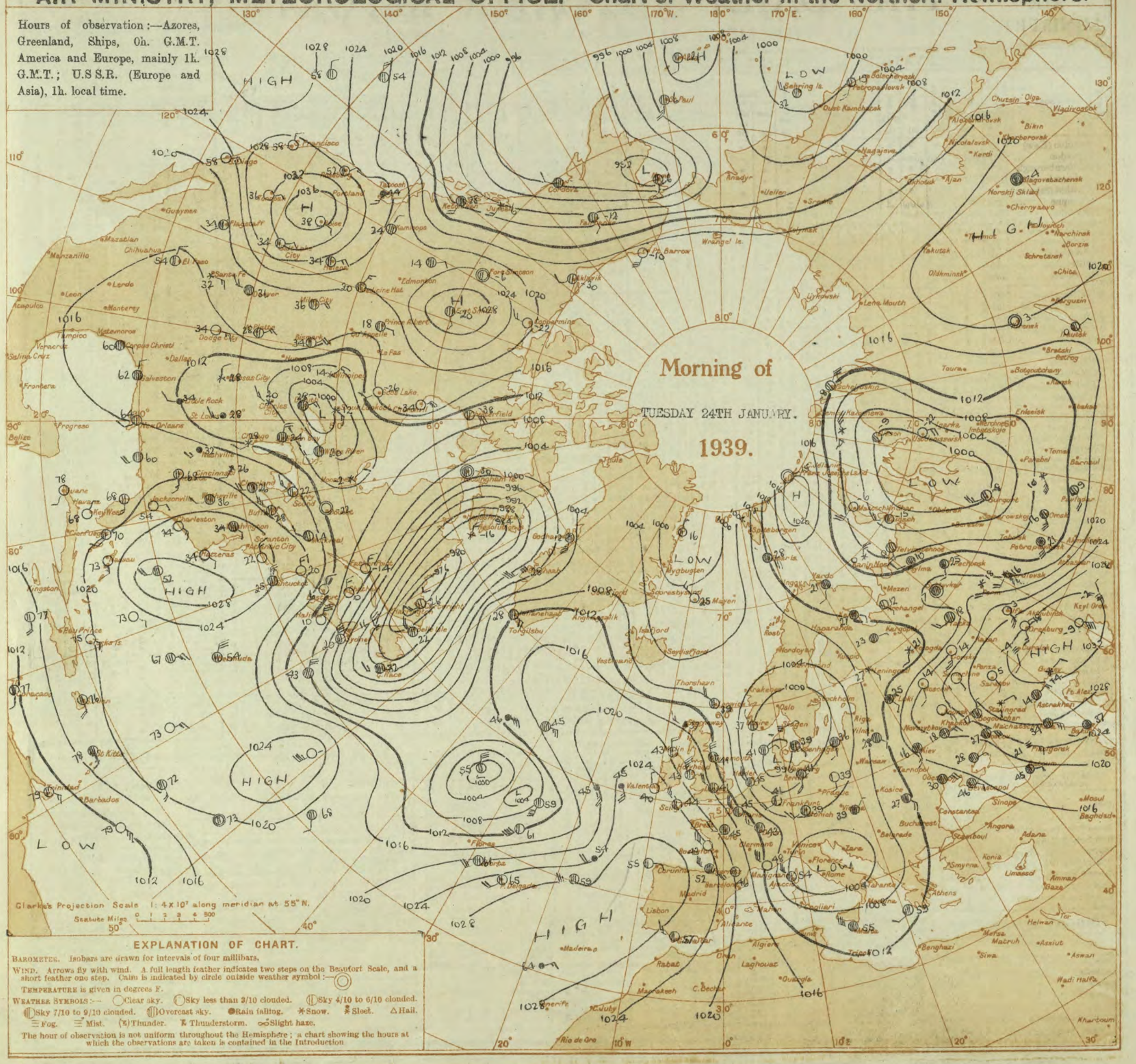
Rain spreading to all districts; becoming mild.

Forecasts issued at 1030 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S
Director.

H.M. Stationery Office Press, Kingsway, W.C.2.

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS :— Clear sky. Sky less than 3/10 clouded. Sky 4/10 to 6/10 clouded. Sky 7/10 to 9/10 clouded. Overcast sky. Rain falling. Snow. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 24th January, 1939.
No. 28187

OBSERVATIONS at 1 hr. G.M.T. 24th January

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Med. (10)	High (11)	Amount Low 0–10 (12)	Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1013·8	+30	WNW	4	c	41	85	7	5	-	-	7-8	7-8	2500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1012·0	+22	WNW	4	z0	40	75	6	-	-	-	0	0	-
	Manston ...	154	1011·0	+26	WNW	5	b	41	75	7	-	-	-	0	0	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1006·6	+24	NW'W	6	c/r	40	85	7	6	-	-	10	10	1500
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299														
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1017·5	+20	NW	7	b	44	85	8	-	-	-	0	0	-
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1022·8	+14	NW'N	4	bc	43	85	8	8	4	-	4-6	4-6	2500
	Scilly (St. Mary's)	163	1024·2	+4	NW'N	5	bc	44	85	8	2	-	-	2-3	2-3	2500
	Guernsey ..	175	1020·3	+20	NW	5	bc	44	65	9	2	-	-	2-3	2-3	2500
6	Pembroke ...	142	1022·1	+14	N'W	5	bcq	42	65	7	5	-	-	2-3	2-3	1500
7	Holyhead ...	26	1017·6	+14	NNW	7	b	43	75	8	2	-	-	Tr	Tr	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1007·9	+34	NW'W	7	cq	41	75	7	-	2	-	0	7-8	-
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1010·0	+32	NNW	6	o	41	65	7	5	-	-	10	10	1500
11	St Abbs Head ..	280	1011·8	+30	WNW	6	bcq	39	65	8	8	6	-	2-3	4-6	2500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1016·9	+26	N	6	b	43	75	8	-	-	-	0	0	-
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1016·8	+14	WNW	3	phr	37	85	8	8	-	-	7-8	7-8	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1012·2	+22	NNW	5	bc	39	75	7	8	7	-	2-3	4-6	1500
16	Lerwick ...	156	1008·0	+14	NW	4	bc	39	75	8	5	-	-	4-6	4-6	800
17	Blacksod Point	18	1022·9	0	NNW	2	b	38	92	8	2	-	-	1	1	2800
18	Malin Head ...	84	1019·5	+14	N'W	4	bc	43	85	8	8	-	2	4-6	4-6	5700
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1025·1	0	NNW	1	b	40	97	8	-	-	-	0	0	-
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 24th January — PAST 24 HOURS.

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low. (23)	Med. (24)	High (25)	Amount Low 0–10 (26)	Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Temperature Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Night 18h–7h mm. (35)	Sunshine 23rd Hrs. (36)
London (Kew)	1018·5	+22	WNW	3	b	39	75	7	5	-	-	Tr	Tr	2500	1	*	43	39	31	0·4	-	0·0
Croydon	1018·1	+20	WNW	4	b	39	75	7	-	4	-	0	1	-	1	*	48	37	34	1	-	0·0
S. Farnborough	1019·3	+18	NW	3	b	38	75	7	-	-	-	0	0	-		*	48	38	34	0·4	Tr	0·1
Boscombe Down	1021·0	+12	WNW	3	b	36	75	7	-	-	-	0	0	-	0	*	47	35	30	0·1	Tr	1·9
Calshot (Sthmtn.)	1020·3	+20	W	2	b	36	85	8	-	3	-	0	Tr	-	1	2	48	36	32	Tr	Tr	2·1
Lympne	1016·4	+34	NW'W	4	bc	38	75	6	5	4	-	4-6	4-6	2500	1	§1	47	38	35	0·2	-	0·0
Manston	1015·5	+22	WNW	5	c	40	75	7	5	-	-	7-8	7-8	4000	1	*	47	39	37	0·2	Tr	0·0
Shoeburyness	1016·8	+30	WNW	4	c	40	75	8	5	-	-	7-8	7-8	4000	1	*	48	39	33	0·4	Tr	0·0
Felixstowe	1014·8	+26	NW	5	c	41	65	7	9	-	-	9+	9+	2500	0	4	48	40	37	1	Tr	0·0
Gorleston	1012·1	+24	NW'W	5	r0r0	41	85	6	6	-	-	10	10	800	1	4	46	40	39	3	2	0·0
Mildenhall	1016·1	+30	WNW	5	c	38	75	8	5	-	-	10	10	1500	1	*	46	38	36	0·6	-	0·0
Cranwell	1016·8	+24	NW'W	5	b	37	75	7	5	-	-	Tr	Tr	4000	1	*	46	36	33	1	-	0·0
Birmingham	1019·0	+10	NW	2	b	37	85	7	-	-	-	0	0	-	1	*	44	37	32	1	0·2	0·0
Upper Heyford	1019·6	+20	NW	3	b	36	85	8	-	-	-	0	0	-	1	*	46	36	30	0·6	0·4	*
Ross-on-Wye	1020·4	+4	WSW	2	b	37	85	8	1	-	-	Tr	Tr	2500	1	*	47	36	29	0·2	Tr	1·3
Hartland Point																						
Bristol	1020·1	+14	WNW	3	b	36	85	7	-	-	-	0	0	-	1	*	47	35	29	0·1	-	0·0
Portland Bill	1020·8	+10	NW	4	bc	42	85	8	5	-	-	4-6	4-6	2500	1	4	49	42	*	-	-	*
Plymouth	1023·2	+2	NW	1	z0	39	85	6	5	-	-	2-3	2-3	1500	1	1	48	39	33	1	-	+7
The Lizard	1023·7	-4	NNW	2	bc	37	92	8	8	-	-	2-3	2-3	2500	1	3	50	36	*	0·6	-	2·1
Scilly (St. Mary's)	1024·1	-8	NNE	2	bc	41	75	8	4	-	-	2-3	2-3	2500	1	3	48	40	*	1	-	4·7
Guernsey	1022·5	+10	NW'W	3	bc	43	75	9	1	3	-	2-3	4-6	2500	1	5	50	42	*	1	-	1·7
Pembroke	1022·9	+2	N	3	bc	41	75	7	8	-	-	2-3	2-3	2500	1	2	47	40	*	-	-	1·0
Holyhead	1020·6	+2	N'W	4	bc	43	85	8	7	-	-	2-3	2-3	2500	1	3	46	42	39	Tr	-	0·1
Chester (Sealand)	1019·9	+10	NW'W	4	bc	40	75	8	8	-	-	4-6	4-6	2500	1	*	45	40	34	2	Tr	0·0
Manchester	1019·4	+20	WSW	1	z0	34	85	6	-	-	-	0	0	-	1	*	44	34	24	0·1	-	0·0
Spurn Head	1013·7	+28	NW'W	6	bcq	39	75	7	-	2	-	0	4-6	-	0	4	44	39	*	1	-	0·2
Catterick	1017·3	+22	NW	4	b	37	65	8	5	-	-	1	1	2500	1	*	44	36	32	Tr	-	0·1
Tynemouth	1015·8	+20	W	3	bc	36	75	7	2	-	-	2-3	2-3	1500	1	2	44	36	32	0·4	-	0·2
St Abbs Head	1015·4	+16	NW	6	bcq	38	75	9	-	3	-	0	2-3	-	0	4	44	36	*	1	-	*
Leuchars	1016·2	+8	W	3	b	37	75	8	5	-	-	1	1	4000	1	*	45	33	27	0·5	-	0·0
Renfrew (Abbots I.)	1019·0	+8	WSW	2	b	35	85	8	-	-	-	0	0	-	3	*	45	31	25	0·1	-	0·6
Eskdalemuir	1018·6	+16	NWW	3	b	32	75	8	-	-	-	0	0	-	1	*	43	31	28	1	Tr	1·6
Point of Ayre	1020·2	+10	N'W	4	b	41	75	8	-	-	-	0	0	-	1	2	46	41	*	-	-	0·7
Tiree	1018·6	0	NW'N	3	pr	41	85	7	8	-	-	4-6	4-6	1500	1	*	45	39	36	1	0·2	0·5
Stornoway	1016·8	-6	W	3	pr	37	85	8	8	-	-	7-8	7-8	2500	1	2	42	36	*	1	1	0·5
Dalwhinnie	1017·9	+4	N	2	c	34	85	7	4	1	-	4-6	10	2500	4	*	39	28	18	3	1	0·1
Aberdeen	1014·8	+12	NW	3	b	37	85	7	-	7	-	0	1	-	1	1	43	35	32	2	1	0·0
Wick	1013·9	+4	NW	4	c/rs	36	97	7	5	7	-	4-6	7-8	1500	1	2	44	35	*	1	1	*
Lerwick	1008·7	-14	NW	3	c	38	85	8	5	7	-	4-6	7-8	1500	1	*	43	36	*	6	0·3	0·0
Blacksod Point	1022·0	-6	S	1	bc	40	92	8	-	4	-	0	2-3	-	1	3	46	36	*	0·3	0·3	*
Malin Head	1020·7	+10	W	1	bc	39	85	8	4	-	-	2-3	2-3	5700	0	3	46	37	*	1	0·4	2·4
Aldergrove	1020·9	+2	SW	2	b	32	97	8	-	-	-	0	0	-	1	*	44	31	24	3	1	2·8
Birr Castle	1023·1	-4	-	0	b	30	97	8	-	-	-	0	0	-	1	*	45	29	20	0·1	-	5·7
Valentia Obsy. †	1022·6	-16	E'S	2	c	35	85	7	5	-	-	7-8	7-8	2500	1	4	47	33	27	3	2·2	4·2
Roches Point	1023·6	-14	N'E	3	bc	36	97	8	5	-	-	2-3	2-3	2500	1	3	46	35	*	*	*	*

LONDON OBSERVATIONS

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except for rainfall which is 9h—18h.

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Afternoon	Night	Temperature Day Max. °F.	Night Min °F.	Min. on Grass °F.	Rainfall Day mm.	Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T % (Yesterday)	9h. G.M.T % (To-day)	Visibility 9h.
Kew	18	cm0pr0	cpr0cm0	cbc	43	39	31	0·4	-	0·0	·	·	6
Croydon	217	cirir0m0	cir0z0	cbz0bbc	48	37	34	1	-	0·0	·	·	5
Greenwich (Royal Observatory)	149	cr	RiRc	cbxm0	48	37	31	1	-	0·0	78	72	5
City (Bunhill Row)	—	·	·	·	·	·	·	·	·	0·0	·	·	·
Westminster (St. James' Park)	27	·	·	·	48	38	31			0·0	79	93	·
Regents Pk. (Botanic Gardens)‡	168	·	·	·	46	37	33	1·4	-	0·0	78	81	·
Camden Square	110	c	c	·	47	38	33	2	-	·	·	75	·
Kensington	80	cr	cp	·	47	38	32	-	1·2	0·0	At 18h. 76	77	·
Hampstead Observatory	450	or	o	bc	45	35	29	1	-	0·0	·	85	·

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 24th

South Kensington. Max.	Time.	Min.	Time.
<0·3 whole period			

Kew Observatory. Max.	Time.	Min.	Time.
0·2	13h 23rd	<0·1	0–6h 24th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 23rd January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 24th January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Night mm.
Paris	1005·5	NW	6	c	48	1017·8	NW	9	c	41	48	39	3	1
Brussels	997·8	W	4	rr	45						*		*	
Berlin	997·7	S	4	c	46						50		0·3	
Zürich	1006·4	NW	2	cc	39	1014·6	W	3	r	37	48	39	-	4
Rome	999·5	WNW	6	iR	50	999·9	N	1	bc	43	*	*	4	1

EXPLANATION of FIGURES, LETTERS, etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	<1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	> 75
		8	39–46		

COLUMNS 24, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

Objects not visible at

0 Dense fog	55 yards.
1 Thick fog	220 „
2 Fog	550 „
3 Moderate fog	1,100 „
4 Mist or haze	1½ miles.
5 Poor visibility	2½ „
6 Moderate „	6¼ „
7 Good „	12½ „
8 Very good „	31 „
9 Excellent „	beyond 31m.

COLUMN 30.—Code for State of Sea.

0 Calm.	5 Very rough.
1 Smooth.	6 High.
2 Slight.	7 Very high.
3 Moderate.	8 Precipitous.
4 Rough.	9 Confused.

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY, LONDON, W.C.2.

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 25th January, 1939.

No. 28188

District	Stations (For heights see p. 4.)	OBSERVATIONS at 13h. G.M.T. 24th January — Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Amount Low 0–10 (12)	Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1019.6	-2	NWW	3	zo	43	55	6	7	-	6	1	4-6	2500
	Croydon	1019.7	-2	NW	3	zo	42	65	6	1	-	-	2-3	2-3	4000
	S. Farnborough	1019.9	-18	NW	3	bc	44	65	8	1	4	-	2-3	2-3	2500
	Boscombe Down	1020.9	-10	NWN	3	bc	42	65	7	1	7	1	Tr	2-3	4000
	Calshot (Sthmtn.)	1020.6	-10	NW	4	zo	44	65	7	1	-	5	Tr	2-3	4000
	Lympne	1018.8	+2	NWN	4	b	42	65	7	1	-	-	Tr	Tr	2500
	Manston	1018.0	+2	NWW	4	b	42	65	7	-	-	-	0	0	-
2	Shoeburyness	1018.6	+4	NW	4	b	43	65	7	-	-	-	0	0	-
	Felixstowe	1017.6	+10	NW	4	b	42	65	8	-	-	-	0	0	-
	Gorleston	1015.6	+8	NWW	4	c	42	75	6	8	-	-	9	9	2500
	Mildenhall	1017.9	+2	NWN	4	zo	42	65	6	-	-	-	0	0	-
	Cranwell	1018.4	+6	NW	3	zo	43	55	6	-	4	4	0	4-6	-
3	Birmingham	1019.5	-2	NW	3	zo	41	65	6	1	-	6	2-3	4-6	2500
	Upper Heyford	1020.2	-2	NWW	3	b	42	75	7	1	-	5	Tr	Tr	4000
4	Ross-on-Wye	1020.0	-10	NNW	3	bc	43	55	8	7	-	6	2-3	4-6	4000
5	Hartland Point	1021.1	-16	-	0	c	43	75	8	2	5	-	1	9+	2500
	Bristol	1021.3	-10	NW	3	bc	42	65	7	1	1	1	4-6	4-6	2500
	Portland Bill	1020.6	-6	NW	3	e	45	85	8	4	4	-	4-6	7-8	2500
	Plymouth	1021.6	-18	-	0	zo	43	75	5	5	3	-	2-3	9+	7200
	The Lizard	1021.7	-16	SSE	2	e	45	85	8	5	2	-	4-6	7-8	1500
	Scilly (St. Mary's)	1020.4	-30	SW	3	iro	45	85	8	6	2	-	4-6	10	1500
	Guernsey	1021.5	-12	NW	1	c	45	65	8	-	3	-	0	9	-
6	Pembroke	1021.4	-8	-	0	e	43	75	7	2	7	-	2-3	9	2500
7	Holyhead	1019.7	-14	NWW	3	bc	44	75	8	2	-	5	2-3	4-6	2500
	Chester (Sealand)	1020.4	-6	W	2	bc	43	75	8	1	3	9	1	4-6	2500
8	Manchester	1019.5	-6	WNW	2	zo	43	65	6	-	4	6	0	4-6	-
10	Spurn Head	1016.2	+6	NW	5	bc	41	65	6	-	8	3	0	2-3	-
	Catterick	1017.5	-6	WS	3	bc	44	65	9	-	-	6	0	2-3	-
	Tynemouth	1016.4	-10	W	3	bc	41	65	6	2	3	-	2-3	2-3	2500
11	St. Abbs Head	1015.6	-4	WNW	5	bcq	41	65	8	-	3	-	0	2-3	-
	Leuchars	1015.7	-6	SW	2	b	42	75	7	-	4	-	0	Tr	-
12	Renfrew (Abbots I.)	1017.2	-18	WS	3	bc	44	75	8	1	4	1	1	2-3	4000
	Eskdalemuir	1017.2	-12	W	3	bc	40	65	7	7	-	1	2-3	4-6	2500
	Point of Ayre	1019.0	-10	NWW	3	c	44	75	8	8	-	9	4-6	7-8	1500
13A	Tiree	1016.5	-12	W	5	bc/phr	43	75	8	8	-	-	4-6	4-6	1500
13B	Stornoway	1015.1	-20	SW	3	e	35	85	8	9	-	-	9	9	2500
15	Dalwhinnie	1016.3	-18	SW	4	c	38	75	7	8	6	1	7-8	9	2500
	Aberdeen	1014.2	-14	W	3	b	43	65	8	7	-	-	1	1	2500
	Wick	1012.4	-10	SSW	4	c/pr	38	92	8	8	7	2	4-6	7-8	1500
16	Lerwick	1008.1	-16	W	3	c	39	85	8	8	7	-	4-6	7-8	1500
17	Blacksod Point	1019.2	-20	SE	2	c	42	85	8	-	-	7	0	7-8	-
18	Malin Head	1018.7	-18	SWW	3	c	43	75	7	8	-	5	4-6	7-8	4000
	Aldergrove	1019.2	-18	WSW	2	c	39	85	7	-	-	6	0	9	-
19	Birr Castle	1020.4	-16	S	1	c	36	97	7	5	-	-	10	10	2500
20	Valentia Obsy. †	1017.8	-32	ESE	4	iro	41	85	8	5	2	-	2-3	10	1500
	Roches Point	1019.6	-28	SE	3	c	44	75	8	6	2	-	4-6	9+	1500

Stations	OBSERVATIONS at 18h. G.M.T. 24th January — Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Amount Low 0–10 (26)	Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	PAST 24 HOURS Weather 7h.–13h. 24th (37)	13h.–18h. 24th (38)	18h. 24th to 1h. 25th (39)	1h.–7h. 25th (40)
London (Kew)	1017.9	-6	WSW	1	zo	39	75	5	-	-	2	0	2-3	-	1	*	bbzobcz	bczoymo	bcmooff	ofrsrs
Croydon	1018.3	-4	SWW	2	bc/f	38	75	5	1	4	5	Tr	4-6	4000	1	*	bzo	bbczof	bcbzocm	rororsrs
S. Farnborough	1018.1	-8	-	0	bc	35	85	6	-	-	-	0	0	-	1	*	b	bbcmo	bcwcx	cxssmo
Boscombe Down	1018.1	-14	ES	1	zo	38	75	6	-	2	6	0	4-6	-	0	*	bcmobc	cmobcm	bcmocm	osos
Calshot (Sthmtn.)	1018.8	-10	-	0	zo	39	85	6	-	7	7	0	10	-	1	1	bbmo	bbc⊕cmo	bcmocfcmo	ciR
Lympne	1018.9	-4	NW	2	zo	35	85	6	-	-	2	0	2-3	-	1	§ 0	bczob	bbzo	bcczox	bczoxcroro
Manston	1018.1	0	WNW	2	zo	36	85	6	5	-	-	2-3	2-3	2500	1	*	bcb	bzobcmo	B,cmox	cmo xc
Shoeburyness	1017.9	-2	WNW	1	zo	37	75	6	5	3	-	4-6	7-8	4000	1	*	cb	bbzoc	czobcmx	bceroro
Felixstowe	1017.4	0	NW	3	bc	40	75	6	5	-	-	2-3	2-3	2500	1	2	cbcb	bbcbcmo	bmobm	cmocroromo
Gorleston	1016.0	+2	WN	2	bc	39	85	6	5	-	-	2-3	2-3	2500	1	2	oro cq	cbc	bczox	bcezox
Mildenhall	1017.1	-4	WSW	2	zo	34	85	6	5	-	5	1	2-3	4000	1	*	cbcbmo	bcmo	bmoxcmox	cmox
Cranwell	1015.8	-22	WSW	1	zo	34	85	6	-	-	6	0	7-8	-	1	*	bbczoy	⊕bcczoy	bczo	bceshf
Birmingham	1017.5	-12	WSW	2	m	35	75	4	-	7	-	0	9	-	1	*	bbc	bccm	cm	cs so
Upper Heyford	1018.4	-6	WN	2	e	35	85	8	-	-	6	0	7-8	-	1	*	b	bc	bcbbcc	cmoossm
Ross-on-Wye	1017.0	-14	NNE	1	zo	37	75	5	-	7	8	0	9	-	1	*	bbc	cbcc	cmoomo	omssoso
Hartland Point	1016.6	-16	SE	3	c	41	85	8	4	2	-	4-6	10	1500	1	2	bcc	c	ororor rr	orr
Bristol	1018.3	-16	-	0	zo	36	85	6	-	7	-	0	10	-	1	*	bbc	bcczo	cmoo	OsoSo mo
Portland Bill	1017.1	-20	S	2	c	45	92	8	5	2	-	4-6	10	2500	1	3	bcc	co	orr	oR
Plymouth	1017.1	-24	E	1	zo	42	85	6	5	2	-	4-6	10	1500	1	1	bcmocm	czocmo	cororomo	ororomorr
The Lizard	1015.8	-24	SE	4	roro	41	92	7	5	-	-	10	10	1500	1	1	c	cpr rr	corr	om Rr
Scilly (St. Mary's)	1012.6	-52	SES	5	roro	42	97	6	6	2	-	7-8	10	1500	1	3	bcciro	croro	ororo	croror
Guernsey	1017.9	-20	SE	1	o	43	75	7	5	-	-	10	10	4000	1	2	bcc	co	or	orrpr
Pembroke	1016.8	-16	SW	3	e	43	75	8	8	2	-	4-6	10	1500	1	1	bcc	c	rso rse	rsorsosc
Holyhead	1016.4	-18	-	0	e	40	75	6	2	7	8	2-3	10	2500	1	1	bbc	bczoc	Rmoc	RlrPH
Chester (Sealand)	1017.0	-20	-	0	zo	37	85	6	-	7	-	0	10	-	1	*	bcb	bccmo	cmbcfw	cmwrosomo
Manchester	1016.8	-16	WSW	2	zo	37	85	5	5	1	-	4-6	7-8	2500	1	*	bmoxbczo	bczocmo	emoffem	cm,morozo
Spurn Head	1015.5	-4	WNW	3	m	40	75	4	-	1	-	0	10	-	0	2	cbc	bcomo	cmbwf	ffomw
Catterick	1014.9	-16	NWW	1	bc	37	75	7	5	-	6	1	4-6	2500	1	*	bybc	bccbc	bx	bxofx
Tynemouth	1014.3	-18	W	3	bc	38	75	6	2	-	-	4-6	4-6	1500	1	2	bc	bc	bc	bc
St. Abbs Head	1012.6	-20	W	4	bc	37	75	7	7	3	-	Tr	2-3	4000	0	3	bq	b	bbccq	bcc
Leuchars	1011.5	-22	SSW	3	zo	37	85	6	8	4	2	2-3	4-6	2500	1	*	b	bbcmo	bccmox	omissosx
Renfrew (Abbots I.)	1013.4	-26	WSW	3	bc	38	85	7	8	4	-	2-3	2-3	4000	1	*	bxbcb	bbcb	rorosoSS	idossx
Eskdalemuir	1014.3	-22	WSW	3	b	31	92	7	5	-	-	1	1	1500	3	*	bxbc	bcbx	bbccx	cxpsox
Point of Ayre	1015.5	-16	WSW	2	e	35	92	8	8	-	6	2-3	9	2500	1	2	bbcc	cw	cbcbx	bcprs
Tiree	1010.6	-32	SWW	4	bc	39	85	8	8	-	-	2-3	2-3	1500	0	3	bcpro	bcphr	bccrs	cbc
Stornoway	1008.4	-16	SSE	4	cq	36	92	7	8	-	-	7-8	7-8	2500	1	2	cPHR	cPHRPRo	cps	cph
Dalwhinnie	1011.2	-26	S	4	c	34	85	7	5	-	-	10	10	2500	4	*	c	cis	*	ciSbc
Aberdeen	1010.2	-20	SWS	2	c	39	65	6	5	3	9	2-3	9	2500	1	1	bzob	bcczo	czo	czopso bc
Wick	1007.3	-24	SW	4	c/pr	36	97	8	5	2	-	9	10	1500	1	2	phr pr	cpr	prcbc	
Lerwick	1005.2	-14	WSW	4	c	39	85	8	8	7	-	4-6	7-8	1500	*	*	cpr irs	cpsh	qprirsp	rcss
Blacksod Point	1015.2	-28	SSE	1	c	40	85	8	5	-	9	2-3	7-8	1500	0	2	c	c	cq	prcq
Malin Head	1014.1	-40	W	3	cjp	40	85	7	8	-	-	7-8	7-8	4000	0	3	ebcc	cbcc	cp/crsrdc	cP[illegible]c
Aldergrove	1015.4	-18	SW	2	c	36	92	7	-	7	8	0	10	-	1	*	bbcc	c	cbcbx	b,cssbc
Birr Castle	1015.8	-18	SSW	1	e	35	97	7	5	-	-	10	10	2500	1	*	bbcc	c	c	cxpsbc
Valentia Obsy. †	1011.4	-34	ENE	5	roro	39	85	7	5	2	-	4-6	10	1500	1	3	cbcciro	croro	roroiroc	cro bc
Roches Point	1014.1	-26	SE	4	rr	40	92	7	6	2	-	7-8	10	800	1	3	bcc	irocrr	ecrc	cbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp. precipitation within sight of station.
ks, storm of drifting snow.
k/so, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
so/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. ro, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
⊕, Solar halo. lunar halo. Aurora.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +. has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As: Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 . . Ground dry.
1 . . „ wet.
2 . . „ flooded.
3 . . „ frozen hard and dry.
4 . . „ partly covered with snow or hail.
5 . . „ covered with ice or glazed frost.
6 . . Ground covered with thawing snow.
7 . . „ covered with snow, less than 6 ins., deep but ground not frozen.
8 . . „ covered with snow, less than 6 ins., but ground frozen
9 . . „ covered with snow greater than 6 ins. deep.

NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2*

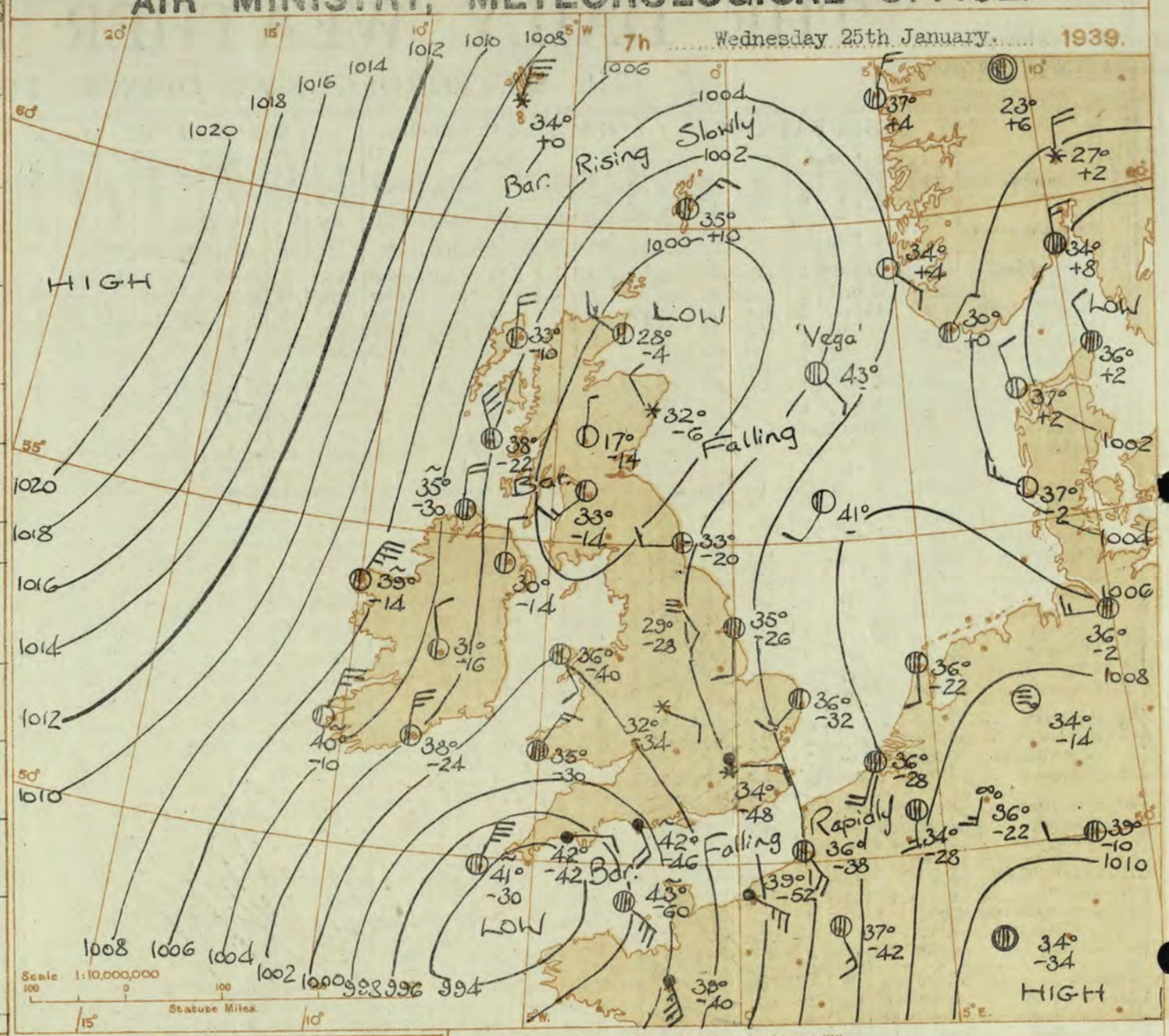
§ Sea disturbance reported from Dungeness

REPORTS from HEALTH RESORTS for 24th January 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F.) Min. 9h. 23rd to 9h. 24th	Temperature. (°F.) Max. 9h.—17h. 24th	Rainfall. (mm.) Night. 17h. 23rd to 9h. 24th	Rainfall. (mm.) Day. 9h.—17h. 24th	Sunshine (hrs) Sunrise to Sunset 24th
1	Tunbridge W.	b	b	36	42	–	–	7·3
	Bournemouth	b	bbc	37	45	–	–	6·2
	Ventnor ...	b	bbcu	37	46	–	–	6·6
	Southsea ...	b	bbc	37	45	Trace	–	6·8
	Bognor Regis	b	b	35	45	Trace	–	7·3
	Littlehampton	bbc	bc	37	48	0·1	–	7·4
	Worthing ...	b	b	38	45	–	–	7·5
	Brighton ...	bc	bc	38	44	Trace	–	7·0
	Eastbourne† ...	b	b	39	46	–	–	7·5
	Hastings† ...	b	b	37	46	Trace	–	7·3
	Folkestone ..	b	bbc	38	49	–	–	6·6
	Dover ...	bcb	bbc	39	44	–	–	6·7
	Deal	cb	b	38	43	–	–	6·9
	Ramsgate ...	bc	bc	39	44	–	–	7·2
	Margate ...	bcb	bbc	39	43	–	–	6·8
2	Southend ...	b	bbc	38	44	–	–	7·2
	Clacton-on-Sea	bbc	bcm	39	43	–	–	7·2
	Dovercourt ...	bcv	bc	38	42	–	–	6·8
	Lowestoft ...	cbc	bcbcc	38	43	2	–	3·2
	Skegness ...	b	bbcb	36	43	1	–	6·1
	Mablethorpe...	b	b	35	42	–	–	6·2
	Cleethorpes ...	bc	bc	35	42	Trace	–	5·8
3	Leamington S.	bc	bcc	36	43	–	–	4·5
4	Cheltenham†	bcx	bccbc	34	43	1	–	4·3
5	Bath	b	bbcc	34	45	–	–	6·0
	Weymouth ...	b	bbc	37	47	–	–	5·5
	Jersey ...	cbc	co	42	47	–	–	2·9
	Torquay ...	bbcc	co	36	44	0·2	–	1·6
	Falmouth	c	cogor	36	45	–	0·2	0·3
	Penzance ...	c	crr	37	46	–	1	0·0
	St. Ives ...							
	Bude... ...	cbc	bc	42	47	–	–	0·9
	Ilfracombe ...	cbc	cbcc	41	45	–	–	0·5
6	Aberystwyth	cbcc	bcc	40	46	–	–	3·4
7	Llandudno ...	bc	bc	41	46	Trace	–	4·1
	Colwyn Bay...	bcb	bcbco	40	45	–	–	4·0
	Rhyl	bc	bcc	39	45	0·4	–	4·7
8	Wallasey ...	b	bbc	39	46	–	–	5·6
	Southport ...	b	bbcc	35	48	–	–	5·7
	Blackpool ...	bm	bccom	38	45	–	–	4·9
	Morecambe ...	xbc	cbc	35	43	–	–	4·1
9	Ilkley... ...	b	bc	32	45	–	–	5·6
	Harrogate ...	b	bbcc	35	44	–	–	6·2
10	Berwick-on-T.	b	b	35	43	–	–	6·7
11	Dunbar ...	bcmx	bcm	33	41	–	–	6·3
12	Troon... ...	cbcb	bcbcc	36	46	–	–	5·4
	Douglas ...	crbx	bc	36	45	Trace	–	4·8

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.

AIR MINISTRY, METEOROLOGICAL OFFICE.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 25th January, 1939.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ... 5 S.W. England	Wind northeast, fresh or strong at times; sleet or snow to-day, fairer to-night and tomorrow; cold, temperature remaining about freezing point.
6 South Wales ... 7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	Wind northerly, moderate or fresh; fair apart from snow showers to-day; cold with sharp frost at night.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B. N.W. Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland 17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	Wind northerly, moderate or fresh; fine; cold with sharp frost at night.

GENERAL INFERENCE.

A depression centred over the mouth of the Channel is moving eastwards and a trough of low pressure over Scotland moving southeastwards. There will be snow or sleet to-day in most districts except West Scotland and Ireland but snowfall will not be heavy except on the higher ground in the south of England and locally in Scotland. Later, fairer conditions will spread southeastwards.

FURTHER OUTLOOK.

Cold and fair in the North; cold and unsettled in the South.

Time of Issue of Gale Warnings.

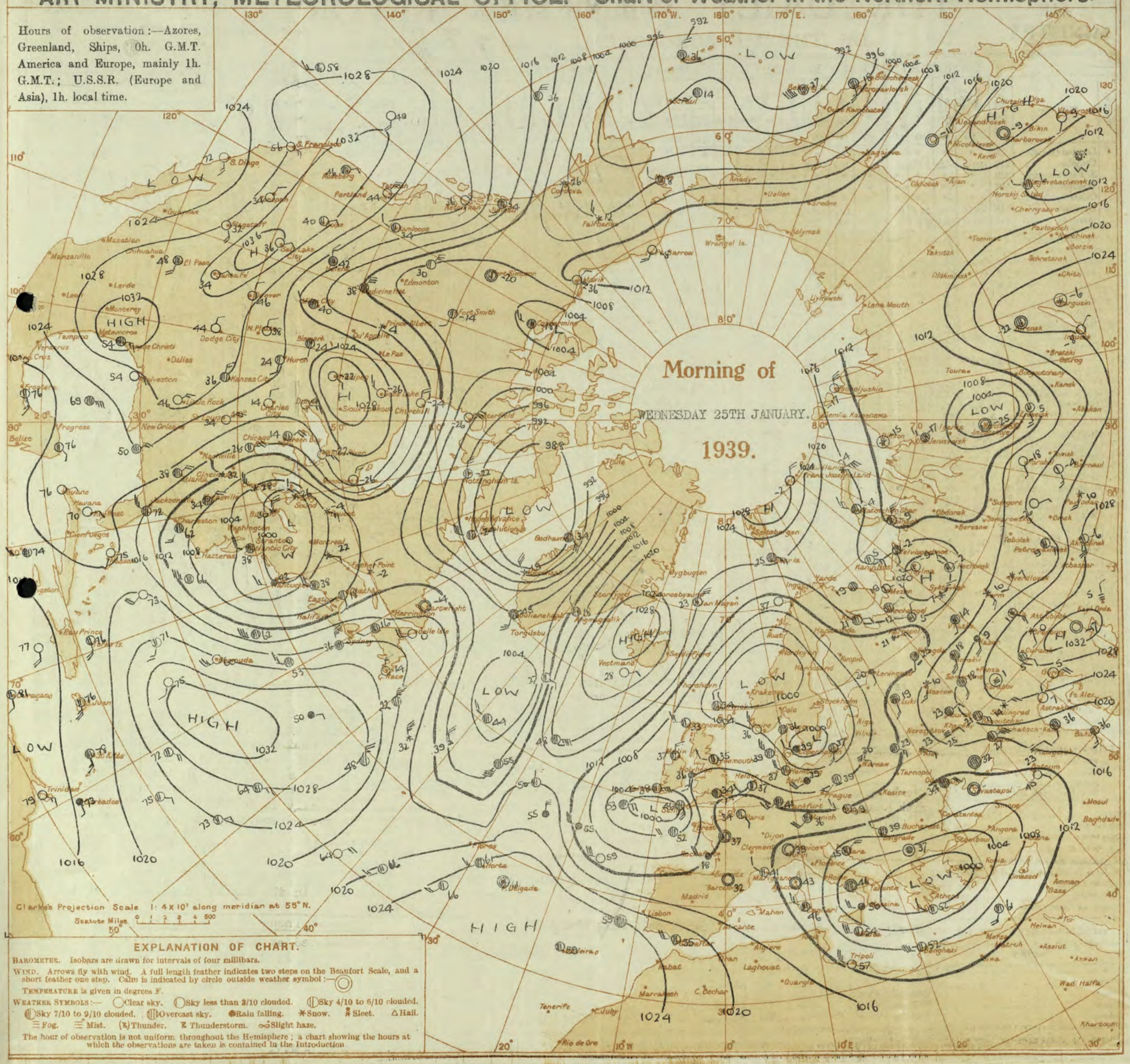
North Cone hoisted at 0600 on 26/1/39 in districts 1, 2, 5, 6, 17 and 20.

Forecasts issued at 1030 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S.
Director.

H.M. Stationery Office Press, Kingsway, W.C.2.

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 25th January, 1939.
No. 28188

OBSERVATIONS at 1 hr. G.M.T. 25th January

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1011·0	-42	SE'S	2	₂	34	92	6	3	7	-	4-6	10	5700
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1012·6	-36	SSE	2	₂	36	75	6	-	2	-	0	9	-
	Manston ...	154	1011·3	-40	S'E	1	c	35	75	6	-	-	6	0	7-8	-
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1010·7	-30	WSW	2	bc	33	92	6	-	4	-	0	2-3	-
	Mildenhall ...	19	1010·2	-38	SE'S	2	₂	32	85	6	-	1	-	0	10	-
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1005·2	-46	ENE	4	rr	35	97	8	-	2	-	10	10	800
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1007·8	-60	SE	3	rr	42	92	8	5	-	-	10	10	1500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1003·7	-60	SE	5	RR	43	97	6	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	999·7	-54	SE'S	5	0	46	97	6	5	-	-	10	10	800
	Guernsey ..	175	1006·4	-64	SE	5	rr	39	97	4	5	-	-	10	10	1500
6	Pembroke ...	142	1006·4	-36	SE'S	5	rs	37	92	7	8	-	-	10	10	1500
7	Holyhead ...	26	1007·6	-38	S	3	r₀r₀	36	92	6	6	2	-	7-8	10	800
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1009·3	-28	SW'W	1	bf	36	92	3	-	-	-	0	0	-
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1007·1	-28	W	2	bc	35	85	6	5	-	-	4-6	4-6	1500
11	St Abbs Head ..	280	1003·9	-20	SW	6	cq	35	85	8	8	6	-	4-6	9	500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1007·5	-48	W	3	b	33	86	8	5	-	-	1	1	2500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1005·1	-16	W	3	bc	33	92	7	8	-	-	4-6	4-6	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1001·5	-16	W'N	3	bc	33	85	8	5	7	-	2-3	2-3	1500
16	Lerwick ...	156	1000·1	-14	NNW	2	c	34	92	8	8	7	-	4-6	7-8	1500
17	Blacksod Point	18	1009·5	-26	NE	8	RR	38	97	7	6	-	-	10	10	220
18	Malin Head ...	84	1005·3	-44	N.	4	c/r	37	92	5	3	-	-	9+	9+	800
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
0	Valentia Obsy. †	30	1007·4	-6	NE	5	bc	38	97	8	5	-	-	2-3	9	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 25th January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low. (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1001·2	-50	E'S	2	rs	34	97	6	-	2	-	10	10	1500	1	*
Croydon ...	1001·7	-48	E	2	rs	34	97	5	-	2	-	10	10	1500	1	*
S. Farnborough	999·9	-46	E'S	2	SS	33	97	4	5	-	-	10	10	800	7	*
Boscombe Down	999·5	-50	SE	4	S₀S₀	33	97	5	5	-	-	10	10	220	4	*
Calshot (Sthmtn.)	999·8	-60	ESE	6	RR	39	92	7	6	-	-	10	10	800	1	3
Lympne ...	1003·8	-44	SSE	4	r₀r₀	37	92	6	6	2	-	9	10	1500	1	3
Manston ...	1003·1	-40	SSE	3	c	35	75	7	5	7	-	4-6	9+	2500	0	*
Shoeburyness ...	1002·8	-38	S	3	r₀r₀	38	85	6	5	2	-	7-8	10	1500	1	*
Felixstowe ...	1003·7	-32	S	4	r₀r₀	37	85	6	5	2	-	7-8	10	1500	1	4
Gorleston ...	1004·4	-32	SW'W	3	c	36	85	6	5	2	-	7-8	9+	2500	1	2
Mildenhall ...	1002·5	-34	E'S	2	₂	35	85	5	5	-	-	10	10	4000	1	*
Cranwell ...	1003·6	-26	-	0	sh	31	97	3	5	-	-	10	10	800	4	*
Birmingham ...	1001·6	-34	ESE	2	S₀S₀	32	97	4	6	-	-	10	10	800	7	*
Upper Heyford	1001·1	-48	ENE	3	SS	32	97	4	5	-	-	10	10	220	7	*
Ross-on-Wye	999·7	-40	ENE	2	is₀	32	97	4	-	2	-	10	10	1500	4	*
Hartland Point	995·7	-42	E	5	rr	35	97	7	-	2	-	10	10	800	1	4
Bristol ...	998·5	-50	-	0	S₀S₀	33	97	4	-	2	-	10	10	1500	7	*
Portland Bill ...	995·9	-46	SSE	4	RR	42	92	7	5	-	-	10	10	800	2	4
Plymouth ...	994·1	-42	E	2	rr	42	97	6	-	2	-	10	10	800	1	2
The Lizard ...	993·0	-28	SSW	4	r₀r₀	47	97	6	5	-	-	10	10	800	1	3
Scilly (St. Mary's)	994·8	-30	NE'N	7	c/r	41	97	6	6	2	-	7-8	10	800	1	4
Guernsey ..	994·6	-60	SE	5	0	43	92	7	5	-	-	10	10	1500	1	5
Pembroke ...	999·5	-30	NE'E	3	o/s	35	92	7	5	-	-	10	10	1500	1	2
Holyhead ...	1000·0	-40	SE'S	2	e/phr	36	85	7	8	-	-	10	10	1500	4	1
Chester (Sealand)	1001·2	-32	SE	1	c/rs	34	92	5	5	2	-	4-6	10	1500	1	*
Manchester ...	1001·6	-26	S'E	2	rs	34	85	5	5	2	-	9	10	1500	1	*
Spurn Head ...	1003·1	-26	S	2	0	35	92	5	5	-	-	10	10	1500	1	1
Catterick ...	1001·3	-28	SE'S	2	F	29	97	1	-	-	-	10	10	450	3	*
Tynemouth ...	1001·7	-20	W	2	bc	33	85	6	2	-	-	4-6	4-6	2500	3	2
St Abbs Head ..	999·3	-24	SE	2	c	33	85	8	4	6	-	4-6	7-8	2500	0	2
Leuchars ...	999·4	-10	-	0	S₀S₀	32	97	4	-	2	-	10	10	450	7	*
Renfrew (Abbots I.)	999·9	-14	WSW	3	bc	33	97	8	5	-	-	2-3	2-3	2500	7	*
Eskdalemuir ...	999·4	-26	S	2	ps	29	97	7	5	-	-	10	10	1500	3	*
Point of Ayre...	999·2	-44	WNW	4	prs	35	97	7	8	2	-	7-8	10	1500	1	2
Tiree	1000·3	-22	NNW	6	c	38	85	7	8	-	-	7-8	7-8	1500	1	*
Stornoway ...	1002·3	-10	N	4	bc	33	75	7	8	-	-	4-6	4-6	2500	4	2
Dalwhinnie ...	*	-14	N	1	b	17	97	8	4	6	-	1	1	4000	7	*
Aberdeen ...	999·6	-6	NW'N	2	ps	32	97	5	6	-	-	10	10	800	7	1
Wick ...	999·4	-4	WNW	3	bc	28	85	8	5	-	-	2-3	2-3	1500	3	1
Lerwick ...	1000·6	+10	ENE	3	c	35	85	8	8	7	-	4-6	7-8	1500	7	*
Blacksod Point	1006·2	-14	NE	7	bcq	39	92	7	9	-	-	4-6	4-6	1500	1	5
Malin Head ...	1002·7	-30	N	4	c/phr	35	97	6	9	-	-	9+	9+	1500	4	4
Aldergrove ...	1001·4	-14	N	2	bc	30	97	7	2	-	-	2-3	2-3	2500	7	*
Birr Castle ...	1003·6	-16	N'W	2	bc	31	97	8	5	-	-	4-6	4-6	2500	4	*
Valentia Obsy. †	1005·5	-10	NNE	5	bc	40	75	8	2	-	-	2-3	2-3	1500	1	4
Roches Point	1002·0	-24	N	5	bc	38	92	8	5	-	-	2-3	2-3	2500	1	3

PAST 24 HOURS.

Stations	Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 24h Hrs. (36)
London (Kew)	43	34	22	-	3	7·0
Croydon ...	43	31	27	-	3	6·9
S. Farnborough	45	30	26	Tr	6	7·3
Boscombe Down	42	32	31	-	4	6·5
Calshot (Sthmtn.)	44	35	31	-	7	6·0
Lympne ...	42	34	23	-	1	7·1
Manston ...	42	32	28	-	-	7·3
Shoeburyness ...	44	31	26	-	Tr	6·7
Felixstowe ...	43	31	26	-	0·3	6·1
Gorleston ...	42	32	31	1	-	2·4
Mildenhall ...	43	31	25	-	Tr	6·8
Cranwell ...	43	30	28	-	Tr	6·1
Birmingham ...	41	32	30	-	1	4·4
Upper Heyford	42	31	24	-	3	*
Ross-on-Wye	44	32	28	-	2	5·6
Hartland Point	44	38	32	-	13	0·5
Bristol ...	44	32	29	-	6	5·3
Portland Bill ...	49	40	*	-	12	*
Plymouth ...	45	39	37	-	19	0·9
The Lizard ...	46	40	*	1	12	0·0
Scilly (St. Mary's)	45	41	*	2	8	0·0
Guernsey ..	46	39	38	-	4	3·4
Pembroke ...	44	34	*	-	4	0·0
Holyhead ...	45	34	32	-	11	3·8
Chester (Sealand)	44	33	30	-	Tr	5·6
Manchester ...	43	31	23	-	Tr	4·8
Spurn Head ...	42	34	*	-	Tr	6·0
Catterick ...	44	27	23	-	Tr	6·1
Tynemouth ...	42	32	28	-	-	5·9
St Abbs Head ..	43	32	*	-	-	*
Leuchars ...	43	32	29	-	4	7·0
Renfrew (Abbots I.)	45	31	29	-	4	5·6
Eskdalemuir ...	42	27	23	-	Tr	4·9
Point of Ayre...	45	31	*	-	0·3	3·7
Tiree	45	33	32	1	5	4·1
Stornoway ...	40	30	*	4	0·4	1·3
Dalwhinnie ...	38	16	10	Tr	9	2·3
Aberdeen ...	43	32	31	-	3	5·5
Wick ...	40	28	*	1	0·2	*
Lerwick ...	40	31	*	2	2	2·0
Blacksod Point	43	32	*	-	2	*
Malin Head ...	44	33	*	-	7	3·8
Aldergrove ...	42	29	17	-	2	5·4
Birr Castle ...	38	27	22	-	0·1	0·0
Valentia Obsy. †	43	36	32	5	2	0·0
Roches Point	45	36	*	2	6	*

LONDON OBSERVATIONS

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except for rainfall which is 9h—18h.

	Height above M.S.L. in feet.	Weather Morning. (24 hrs. ended 9h.)	Weather Afternoon.	Weather Night.	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day. mm.	Rainfall Night. mm.	Sunshine to Sunset hrs. (Yesterday.)	Humidity 15h. G.M.T % (Yesterday.)	Humidity 9h. G.M.T % (To-day.)	Visibility 9h. (To-day.)
Kew...	18	bbzbc₂	bc₂mwff	ofrs	43	34	22	-	3	7·0	•	•	2
Croydon	217	bz₀	bbczfm	r₀r₀rs	43	31	27	-	3	6·9	•	•	4
Greenwich (Royal Observatory)...	149	bm₀	bcm₀	cfsrss	42	32	28	-	4	3·8	63	93	4
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	3·7	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	41	34	28	5	*	5·6	72	95	*
Regents Pk. (Botanic Gardens)‡...	168	*	*	*	43	33	25	-	5	6·1	89	90	*
Camden Square	110	b	bc	*	45	33	28	-	5	*	*	94	*
Kensington	80	bc	bc	*	44	33	28	-	5	6·3	61 18h.	92	*
Hampstead Observatory	450	bc	bc	orsf	45	32	26	-	4	6·5	71	98	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 24th

South Kensington. Max.	Time.	Min.	Time.
1·3	19-21h 24th	0·3	4-5h 25th

Kew Observatory. Max.	Time.	Min.	Time.
1·0	21h 24th	<0·1	5-6h 25th

FOREIGN OBSERVATIONS.

18h. G.M.T. 24th January. 7h. G.M.T. 25th January.

Stations	18h. Barom. mb.	18h. Wind Direc.	18h. Wind Force.	18h. Weather.	18h. Temp. °F.	7h. Barom. mb.	7h. Wind Direc.	7h. Wind Force.	7h. Weather.	7h. Temp. °F.
Paris	1019·5	WNW	3	₂	39	1005·5	S'E	3	c	37
Brussels	1016·2	WNW	3	0	41	1007·3	S	3	c	34
Berlin	1004·0	WSW	4	r₀r₀	43					
Zurich	1020·4	S	3	0	37	1011·8	SE	1	c	34
Rome	1004·0	NNW	5	c	50	1005·6	N	1	b	43

Past 24 Hours.

Stations	Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris	46	34	-	-
Brussels	41	34	3	-
Berlin	45		Tr	
Zurich	39	32	0·2	-
Rome	*	*	-	-

EXPLANATION OF FIGURES, LETTERS etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	<1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	> 75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22 —Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 „
2 Fog	550 „
3 Moderate fog	1,100 „
4 Mist or haze	1½ miles.
5 Poor visibility	2½ „
6 Moderate „	6½ „
7 Good „	12½ „
8 Very good „	31 „
9 Excellent „	beyond 31m.

COLUMN 30.—Code for State of Sea.

0 Calm.	5 Very rough.
1 Smooth..	6 High.
2 Slight.	7 Very high.
3 Moderate.	8 Precipitous.
4 Rough.	9 Confused.

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY, LONDON, W.C.2.

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. * Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday, 26th January. 1939.
No. 28189.

OBSERVATIONS at 13h. G.M.T. 25th January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Amount Low 0–10 (12)	Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	981.4	-60	ENE	2	ss	33	97	2	-	2	-	10	10	800
	Croydon	984.2	-50	E'N	4	ss	33	97	3	-	2	·	10	10	450
	S. Farnborough	988.8	-66	ENE	4	ss	33	97	4	5	-	-	10	10	450
	Boscombe Down	988.1	-66	ENE	4	ss	33	97	3	5	-	-	10	10	450
	Calshot (Sthmtn.)	988.4	-70	E'S	4	roro	41	97	7	6	2	·	9	10	800
	Lympne	993.2	-66	SE'E	5	rs	35	92	5	6	-	-	10	10	220
	Manston	993.8	-54	SE	4	rs	35	92	5	6	2	-	9	10	450
2	Shoeburyness	993.4	-50	ESE	4	rs	35	97	6	-	2	-	10	10	450
	Felixstowe	995.2	-50	SE	5	rr	36	97	6	5	-	-	10	10	800
	Gorleston	997.6	-36	SE'E	5	phr	36	85	6	6	-	-	10	10	1500
	Mildenhall	994.5	-48	E'N	4	rs	33	97	5	6	-	-	10	10	800
	Cranwell	995.7	-46	E	2	ss	33	97	4	6	-	-	10	10	450
3	Birmingham	993.4	-40	ENE	2	soso	32	97	3	6	-	-	10	10	450
	Upper Heyford	991.8	-50	ENE	3	soso	33	85	4	-	2	-	10	10	450
4	Ross-on-Wye	991.2	-50	NE	2	sf	33	97	3	-	2	-	10	10	800
5	Hartland Point	991.5	-28	N	6	roro	36	97	7	-	2	-	10	10	800
	Bristol	990.3	-50	NE'N	3	sf	32	97	2	-	2	-	10	10	220
	Portland Bill	986.2	-50	NE	4	rr	38	92	7	5	-	-	10	10	1500
	Plymouth	990.3	-16	N	5	c/pr	37	85	7	8	-	-	9+	9+	1500
	The Lizard	992.5	0	NWN	6	pr	36	97	7	8	2	-	7-8	10	1500
	Scilly (St. Mary's)	995.2	-4	NNW	7	cjp	41	65	8	8	6	-	4-6	7-8	1500
	Guernsey	985.3	-40	WN	3	rr	47	97	6	5	-	-	10	10	800
6	Pembroke	994.2	-20	NE	4	c/s	35	92	7	5	6	-	7-8	9+	1500
7	Holyhead	995.3	-26	NNE	5	cjp	39	75	8	8	-	1	7-8	9+	1500
	Chester (Sealand)	995.9	-28	-	0	ss	35	92	4	-	2	-	10	10	1500
8	Manchester	996.0	-30	ENE	3	sf	36	85	3	5	2	-	2-3	10	1500
10	Spurn Head	996.9	-24	ESE	3	rs	35	97	4	5	-	-	10	10	800
	Catterick	997.5	-20	-	0	cf+	33	97	3	-	-	-	10	10	<150
	Tynemouth	998.6	-12	S	2	c	34	85	5	5	-	-	9+	9+	2500
11	St. Abbs Head	997.9	-2	SSW	2	c	34	97	8	8	6	-	4-6	7-8	2500
	Leuchars	998.0	-10	ESE	2	c/s	36	92	6	8	3	-	4-6	7-8	800
12	Renfrew (Abbots I.)	998.7	-2	NE'N	2	b	34	75	9	2	4	·	Tr	1	4000
	Eskdalemuir	997.3	-12	NE	3	soso	31	92	6	6	7	-	9	9+	800
	Point of Ayre	996.6	-14	NE	3	c	37	85	8	8	6	-	4-6	7-8	2500
13A	Tiree	998.6	-6	NE'N	4	c/phr	37	92	8	8	-	-	7-8	7-8	1500
13B	Stornoway	1003.6	+16	NE	4	c	36	65	8	8	5	2	4-6	7-8	2500
15	Dalwhinnie	*	+2	NNE	2	ss	24	92	5	6	·	-	10	10	1500
	Aberdeen	1000.1	+6	SE	2	psh	33	92	6	9	7	-	4-6	7-8	800
	Wick	1000.5	+4	ENE	5	pr	40	85	8	8	7	8	4-6	9+	1500
16	Lerwick	1005.3	+24	E	6	c	40	75	8	8	7	-	4-6	7-8	1500
17	Blacksod Point	1004.7	-12	N	7	PRs	36	97	7	6	-	-	10	10	<150
18	Malin Head	999.1	-8	N	4	cjp	36	85	6	3	-	-	7-8	7-8	800
	Aldergrove	997.7	-22	NWN	3	bc	34	85	9	8	-	-	4-6	4-6	2500
19	Birr Castle	1001.6	-14	N'W	1	bc	35	92	8	5	7	-	4-6	4-6	2500
20	Valentia Obsy. †	1004.8	-10	NNE	5	c/s	38	85	8	9	-	-	9	9	2500
	Roches Point	999.8	-28	N	6	bc	38	85	9	1	-	1	2-3	4-6	2500

OBSERVATIONS at 18h. G.M.T. 25th January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Amount Low 0–10 (26)	Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	983.2	-40	ENE	4	rs	35	92	5	-	2	-	10	10	800	6	*
Croydon	984.1	-36	NE'E	4	soso	33	97	4	·	2	-	10	10	450	7	*
S. Farnborough	981.9	-36	NEE	3	sf	33	97	3	-	2	-	10	10	800	7	*
Boscombe Down	983.2	-14	N	5	soso	33	97	4	5	-	-	10	10	450	9	*
Calshot (Sthmtn.)	981.0	-40	N	5	roro	37	92	6	6	2	-	10	10	800	1	3
Lympne	985.9	-40	SE	5	rs	35	92	5	6	-	-	10	10	450	1	§ 3
Manston	986.3	-30	SE'E	5	RR	36	92	5	-	2	-	10	10	800	1	*
Shoeburyness	986.2	-40	E'S	6	rr	36	92	6	6	-	-	10	10	450	1	*
Felixstowe	988.9	-26	ESE	7	rr	37	97	5	5	-	-	10	10	800	2	5
Gorleston	992.2	-20	E'S	7	rr	37	92	6	6	-	-	10	10	1500	1	4
Mildenhall	988.7	-30	ENE	5	ss	33	97	4	5	-	-	10	10	450	6	*
Cranwell	992.6	-10	ENE	3	sf	32	97	3	-	-	-	10	10	<150	7	*
Birmingham	989.7	-8	NNE	3	soso	31	97	3	6	-	-	10	10	450	7	*
Upper Heyford	986.9	-24	NNE	4	soso	32	97	3	6	-	-	10	10	450	7	*
Ross-on-Wye	988.5	-14	NNE	4	soso	33	97	4	5	-	-	10	10	800	7	*
Hartland Point	991.1	+4	N	7	c	39	85	8	6	4	-	7-8	9	1500	1	4 *
Bristol	987.0	-10	NNE	5	sf	33	97	3	-	2	-	10	10	450	7	
Portland Bill	982.9	-12	NNE	5	rr	36	92	7	5	-	-	10	10	1500	2	4
Plymouth	988.9	+10	N'W	5	z	38	75	6	3	-	-	9	9	800	1	1
The Lizard	993.3	+14	NW	7	⊕R	35	97	7	8	2	-	7-8	9+	1500	4	4
Scilly (St. Mary's)	995.8	+14	NWN	7	bc	40	55	8	8	-	-	4-6	4-6	1500	1	4
Guernsey	986.1	+4	NW'W	5	ir	37	92	6	5	-	-	10	10	1500	1	4
Pembroke	993.7	+2	NNE	5	c/ps	38	75	7	9	-	-	9+	9+	1500	1	3
Holyhead	994.6	+2	N'E	5	phr	37	85	7	9	7	·	9	10	1500	1	3 *
Chester (Sealand)	994.1	-4	N	3	sf	33	92	3	-	-	-	10	10	<150	1	*
Manchester	994.2	-2	NE'N	4	iso	34	85	5	-	2	-	10	10	1500	1	
Spurn Head	993.8	-8	ESE	6	rr	35	97	7	5	-	-	10	10	1500	2	4 *
Catterick	996.9	-2	N'E	3	sf	33	97	3	-	-	-	10	10	<150	7	
Tynemouth	998.3	+4	E	4	c	35	92	7	9	2	-	7-8	10	1500	1	2
St. Abbs Head	1000.4	+16	ENE	3	c/s	35	97	7	3	2	-	7-8	10	1500	1	2
Leuchars	1002.8	+54	N	2	c/ps	34	92	6	9	7	-	7-8	9	800	7	*
Renfrew (Abbots I.)	1001.8	+30	NE	1	m	32	92	4	5	-	-	7-8	7-8	1500	7	*
Eskdalemuir	999.7	+20	NE'N	3	c	30	92	5	5	2	-	2-3	9+	800	8	*
Point of Ayre	997.3	+8	ENE	5	c	37	85	7	8	-	-	7-8	7-8	1500	1	3
Tiree	1003.2	+28	NNE	5	bc	38	85	8	8	6	-	4-6	4-6	1500	*	5
Stornoway	1008.3	+34	NE	7	PHR	40	85	7	8	-	-	9+	9+	1500	1	4
Dalwhinnie	1005.0	+36	NE	2	c	28	85	7	8	6	-	7-8	9+	2500	7	*
Aberdeen	1005.0	+32	E'N	3	bc/pr	37	85	7	9	3	-	4-6	4-6	800	7	2
Wick	1006.4	+42	ENE	5	bc	39	85	8	5	7	1	4-6	4-6	1500	1	2
Lerwick	1009.6	+16	NE	5	c/pr	39	85	8	8	2	-	4-6	7-8	1500	1	*
Blacksod Point	1001.1	-10	NE	5	c	36	97	7	9	-	-	7-8	7-8	800	4	5
Malin Head	1001.6	+20	NE	4	bc	37	75	8	8	-	1	4-6	4-6	5700	4	4
Aldergrove	999.1	+20	ENE	3	bc	30	97	8	8	-	-	2-3	2-3	1500	7	*
Birr Castle	999.9	-4	NNE	1	bc	32	97	8	5	-	-	2-3	2-3	2500	4	*
Valentia Obsy. †	1003.3	-10	NNW	6	c	40	75	8	9	-	-	9	9	1500	1	4
Roches Point	999.6	+2	N'W	6	ps	38	85	8	3	-	3	2-3	4-6	2500	1	3

PAST 24 HOURS. WEATHER.

Stations	7h.—13h. 25th (37)	13h.—18h. 25th (38)	18h. 25th to 1h. 26th (39)	1h.—7h. 26th (40)
London (Kew)	osSSfs	orsfssrs	orsrsmo	cmo
Croydon	rsrssgss	sfrsSf	ossfcmo	cmodmo
S. Farnborough	sssgrs	ssmfcs	fssSSo	cmo
Boscombe Down	ossSss	ossSss	sosossfc	c
Calshot (Sthmtn.)	crrmo	errromo	crrrssh	cirosodo
Lympne	crsrsmo	orsrsm	rsdcroc	ciromo
Manston	errrsm	orrRRm	RRroromo	cirobc
Shoeburyness	roromRso	rsrrmc	crrmo	crrmoc
Felixstowe	crromo psh	orsrsroro	orrmo	orsrsm
Gorleston	coprophr	oihsrrq	oRrrq	orriRq
Mildenhall	cmersrsm	crsossm	rsrsrrm	rsrsmrrm
Cranwell	shofssm	ossf	ossfrsrs	orsrs
Birmingham	ssf	sf	fsoso	sorso
Upper Heyford	ossfssm	ossfm	sofsoso	ossroso
Ross-on-Wye	somssf	ssfsom		
Hartland Point	roroo	roroc	c	
Bristol	osmssf	ossfso	sssosoq	ssSrsrsq
Portland Bill	oR	oR	ors	pss
Plymouth	rrcpro	promcm	cbqcdo	cdroromo
The Lizard	beprs	prssq	prcbc	bccpr
Scilly (St. Mary's)	ephroc	phrobcy	cphps	cphrlq
Guernsey	orrro	orrir	oirq	orrc
Pembroke	issc	epshq	cprsq	cprq
Holyhead	phproc	phproc	phrorc	roprkc
Chester (Sealand)	crosorosm	orosssf	ossrsrm	cpro
Manchester	cirosmffs	esssssf	sosorsrs	rsrscpro
Spurn Head	omrs	rsrrq	qrrs	rrqo
Catterick	Fqoss	ofsss	fossmo	rsiroso
Tynemouth	bccffc	cmiso	oirso	opbc
St. Abbs Head	c	irsc	cphrq	bccq
Leuchars	sisishsc	epsopsh	pshoprsqb	cprsobc
Renfrew (Abbots I.)	bcmb	bccmo	ssrso	bbc
Eskdalemuir	essox	essex	sosox	xisoc
Point of Ayre	prsc	c	c	bcc
Tiree	eph	ophbc	bc	bc
Stornoway	bccph	cprsphr	bcprPHR	bcpr
Dalwhinnie	css	cis	*	cis
Aberdeen	ocsmpsh	pshcprs	bcbbc	bccPR
Wick	psoph	prsbc	prphr	prbcq
Lerwick	cphr	cprphr	cpring	cirphr
Blacksod Point	PHStl	PHSq	PHq	PHq
Malin Head	cbcPSc	cpsbc	cprbcbc	bccbc
Aldergrove	bcps bc	cpspsmbc	psmprsc	c
Birr Castle	bc	bcpsbc	bc	bcx
Valentia Obsy. †	phpsqc	cbciscq	cphscSbc	bc
Roches Point	bc	bcpso	bcbx	bxbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
fe, low fog over sea (coast station).
fg, low fog over land (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s_o, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s_o/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
⊕, Solar halo. ⊕ lunar halo. Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus :—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations :— Cirrus,–Ci : Cirrocumulus,–Cc : Cirrostratus,–Cs : Altocumulus,–Ac : Altostratus,–As : Stratocumulus,–Sc : Stratus,–St : Nimbostratus,–Ns : Cumulus,–Cu : Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. „ wet.
2 .. „ flooded.
3 .. „ frozen hard and dry.
4 .. „ partly covered with snow or hail.
5 .. „ covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. „ covered with snow, less than 6 ins., deep but ground not frozen.
8 .. „ covered with snow, less than 6 ins., but ground frozen
9 .. „ covered with snow greater than 6 ins. deep.

NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2*

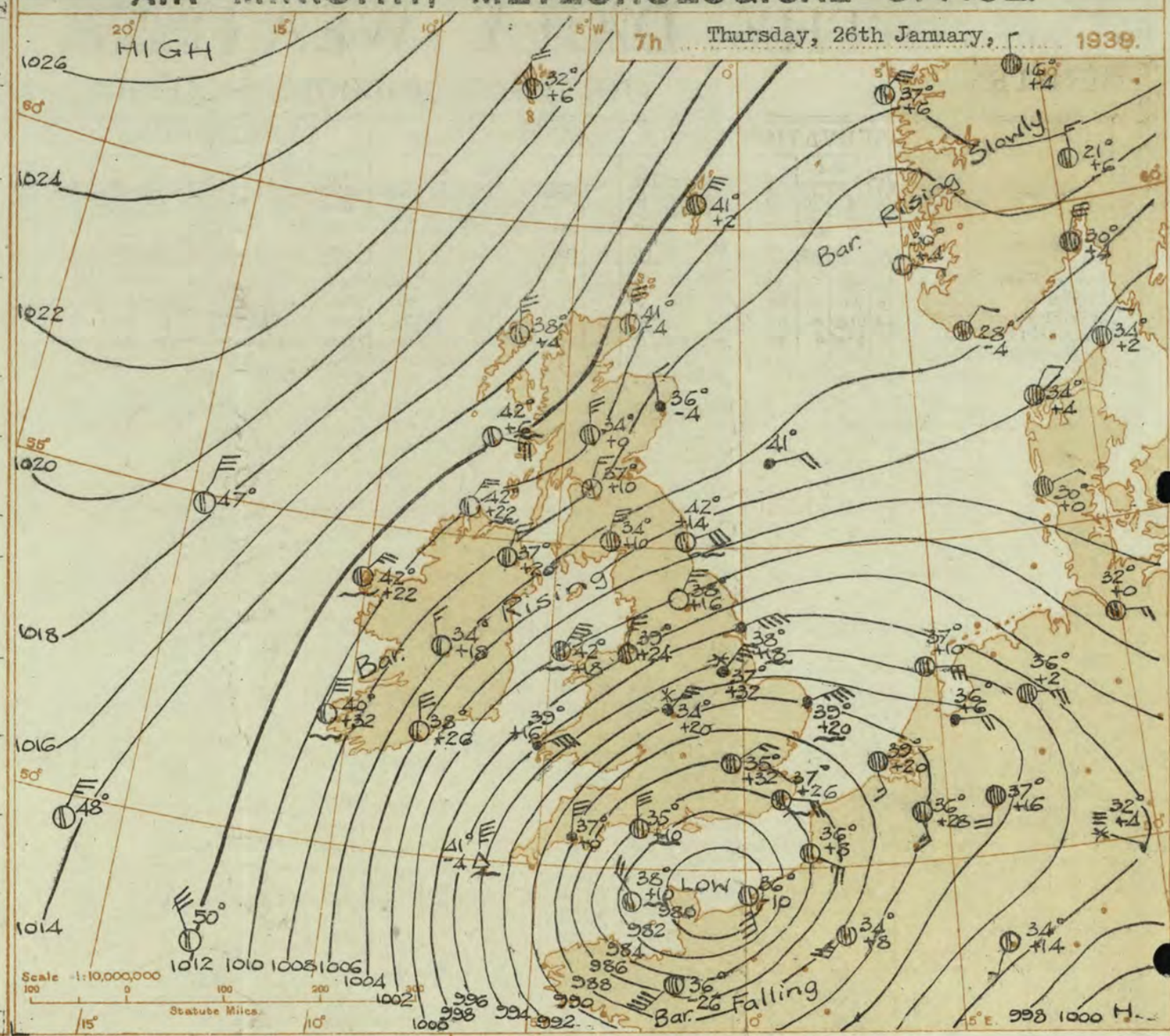
† Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 25th January, 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F.) Min. 9h. 24th to 9h. 25th	Temperature. (°F.) Max. 9h.—17h. 25th	Rainfall. (mm.) Night. 17h. 24th to 9h. 25th	Rainfall. (mm.) Day. 9h.—17h. 25th	Sunshine (hrs) Sunrise to Sunset. 25th
1	Tunbridge W.	oss	oss	28	33	5	21	0.0
	Bournemouth	r	rrrs	36	40	15	9	0.0
	Ventnor ...	or	orf	37	42	11	18	0.0
	Southsea ...	or	or	36	41	13	12	0.0
	Bognor Regis	rr	rr	35	42	9	26	0.0
	Littlehampton	or	or	33	43	7	28	0.0
	Worthing ...	or	or	34	43	8	26	0.0
	Brighton ...	rr	rr	35	43	3	28	0.0
	Eastbourne† ...	rr	rr	34	43	6	27	0.0
	Hastings† ...	orr	rrs	35	42	5	24	0.0
	Folkestone ..	orisr	RR	33	38	2	20	0.0
	Dover ...	orrs	rsr	34	39	0.5	17	0.0
	Deal	rr	rrR	33	39	Trace	13	0.0
	Ramsgate ...	rq	rq	36	44	0.2	13	0.0
	Margate ...	er	er	35	38	0.5	21	0.0
2	Southend ...	ors	orsr	35	36	3	11	0.0
	Clacton-on-Sea	orrir	orrr	33	41	-	15	0.0
	Dovercourt ...	roc	roc	33	41	2	13	0.0
	Lowestoft ...	eqrs	eqrs	37	40	0.5	6	0.0
	Skegness ...	orsrr	orr	31	40	-	6	0.0
	Mablethorpe...	omxosr	orr	30	37	-	4	0.0
	Cleethorpes ...	ors	orsr	31	36	-	5	0.0
3	Leamington S.	os	os	32	33	3	11	0.0
4	Cheltenham†	omss	ossm	32	37	7	8	0.0
5	Bath	ss	sgs	33	34	12	8	0.0
	Weymouth ...	rr	ss	38	42	17	11	0.0
	Jersey ...	re	erea	39	48	5	6	0.0
	Torquay ...	orospe	orssp	37	37	25	7	0.2
	Falmouth	reohs	hrsso	37	41	27	9	1.1
	Penzance ...	reirs	ihp	38	42	15	6	0.8
	St. Ives ...							
	Bude... ...	rebee	e	32	[illegible]	22	1	0.4
	Ilfracombe ...	orr	rro	35	39	18	3	0.0
6	Aberystwyth	psc	e	33	40	0.3	-	0.0
7	Llandudno ...	eirs	eqe	33	38	2	0.4	0.0
	Colwyn Bay...	epo	orso	33	37	0.3	1	0.4
	Rhyl	ebc	em	33	38	0.3	-	0.2
8	Wallasey ...	meo	prs	34	35	-	Trace	0.0
	Southport ...	soepso	eosg	31	35	2	0.2	0.0
	Blackpool ...	ogof	ompso	29	36	Trace	Trace	0.0
	Morecambe ...	ose	sbe	33	36	-	1	0.0
9	Ilkley... ...	fs	ss	28	33	Trace	3	0.0
	Harrogate ...	fss	fss	30	33	0.1	6	0.0
10	Berwick-on-T.	csbe	emso	32	38	-	Trace	2.5
11	Dunbar ...	cphs	eps	33	35	Trace	0.5	0.2
12	Troon... ...	xebe	bee	31	35	1	-	5.7
	Douglas ...	bepsx	be	32	38	1	-	4.0

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 26th January, 1939.

Districts.	Forecasts
1 S.E. England ♠ 2 E. England ... ♠	Wind east to northeast, strong moderating; cloudy, occasional drizzle or sleet. Cold; frost at night inland.
3 E. Midlands ... 4 W. Midlands ... 5 S.W. England ♠ 6 South Wales ... ♠	Wind northeast, strong or gale at first, moderating. Cloudy; occasional rain or sleet. Cold; frost at night.
7 North Wales ... ♠ 8 N.W. England ♠	Wind northeast fresh. Mainly bright, but some showers. Cold with sharp frost at night.
9 N. Midlands ... 10 N.E. England ♠	Wind northeast strong or gale at first, moderating; cloudy, occasional drizzle or sleet. Cold; frost at night inland.
11 S.E. Scotland 12 S.W. Scotland & Isle of Man. ♠ 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland 17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland ♠ 20 S. W. Ireland	As 7 – 8.

GENERAL INFERENCE.

A depression centred over the middle of the English Channel is almost stationary and filling up. Winds will remain between Northeast and North, of gale force locally at first, but decreasing generally. The weather will be mainly cloudy in eastern districts with occasional rain or sleet, but in the West it will be much brighter. The temperature will remain above freezing point in all districts during the day, but there will be a frost to-night.

FURTHER OUTLOOK.

Remaining cold; mainly fair in the North, unsettled in the South.

Time of Issue of Gale Warnings.

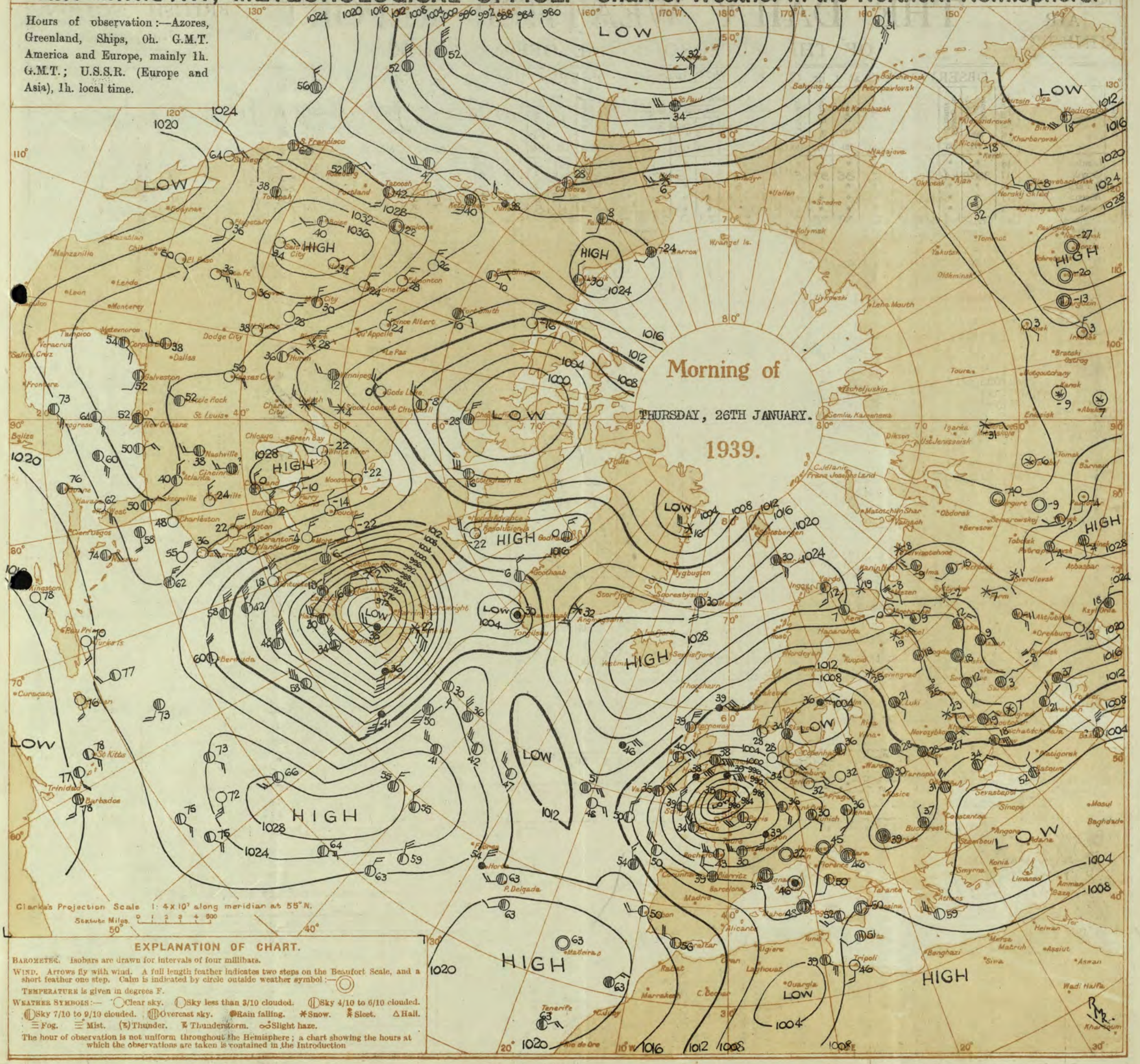
♠ North Cone hoisted at 0600 on 25/1/39 in districts 1, 5 and 6, and at 1640 in districts 2,7,8,10, 12 and 19.

Forecasts issued at 1000 G. M. T.

N. K. JOHNSON, M.Sc., A.R.C.S
Director.

H.M. Stationery Office Press, Kingsway, W.C.2

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday, 26th January, 1939.

No. 28189.

OBSERVATIONS at 1 hr. G.M.T. 26th January.

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	980.2	+4	ENE	3	z₀	35	97	5	5	-	-	10	10	1500
	S. Farnborough	225	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	981.2	-4	SSE	4	c	39	75	7	5	2	-	7-8	9	2500
	Manston ...	154	981.4	-10	ESE	4	r₀r₀	38	92	6	6	2	-	9	10	800
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	987.7	-10	E	8	rr	37	97	6	6	-	-	10	10	800
	Mildenhall ...	19	985.2	-4	NE'E	5	rs	34	97	5	5	-	-	10	10	800
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	988.2	-22	N	8	c	38	85	8	8	6	-	7-8	9	1500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	979.6	-20	NNW	7	ss	36	92	6	5	-	-	10	10	800
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	992.2	-16	NW'W	7	bc	38	85	8	8	-	-	4-6	4-6	1500
	Scilly (St. Mary's)	163	994.7	-2	N'W	6	bc	39	75	8	8	6	-	2-3	4-6	1500
	Guernsey ..	175	984.3	-10	NWW	7	oq	40	75	6	5	-	-	10	10	1500
6	Pembroke ...	142	992.2	-8	NE	5	c/ps	36	92	7	8	-	-	7-8	7-8	1500
7	Holyhead ...	26	995.6	+6	NE	7	rr	38	92	6	6	2	-	7-8	10	450
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	990.9	-8	E'N	8	r₀r₀	39	85	7	5	-	-	10	10	1500
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1000.6	+4	E	8	o	38	85	7	6	-	-	10	10	800
11	St Abbs Head	280	1004.9	+10	NE	6	phr	41	75	7	3	2	-	7-8	10	1500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre ...	30	1000.7	+20	ENE	7	ir₀	40	85	8	8	2	-	7-8	10	1500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1013.4	+10	NNE	6	bc/phr	39	75	8	8	-	-	4-6	4-6	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1010.7	+4	N	4	bc/phr	40	85	8	5	7	-	2-3	4-6	1500
16	Lerwick ...	156	1010.0	-6	NE	8	ir	39	85	7	6	2	-	4-6	10	450
17	Blacksod Point	18	1007.6	+18	NE	6	bcq	39	92	7	9	-	-	4-6	4-6	800
18	Malin Head ...	84	1007.9	+34	NE'E	5	bc	40	85	7	8	-	-	4-6	4-6	4000
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1003.8	+20	NE	6	o/rs	35	97	6	5	-	-	10	10	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 26th January. — PAST 24 HOURS.

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 25th Hrs. (36)
London (Kew)	984.8	+30	NNE	4	z₀	36	92	6	5	-	-	9+	9+	1500	7	*	35	33	32	23	4	0.0
Croydon	984.6	+32	ENE	3	c	35	92	6	5	4	-	7-8	9	1500	6	*	34	32	32	16	3	0.0
S. Farnborough	983.7	+28	NE'N	4	z₀	35	92	6	5	-	-	10	10	800	7	*	34	33	29	14	8	0.0
Boscombe Down	983.4	+24	NNE	6	c	33	97	7	5	-	-	9	9	1500	9	*	33	31	31	16	5	0.0
Calshot (Sthmtn.)	981.4	+26	N	5	c/d	38	85	7	8	7	-	7-8	9+	800	1	3	42	33	33	13	2	0.0
Lympne	984.7	+26	ESE	4	c/r	37	85	7	5	2	-	9	10	1500	1	§4	40	34	32	25	6	0.0
Manston	985.1	+22	ESE	4	c	38	75	7	5	-	-	9+	9+	1500	1	*	39	35	34	24	13	0.0
Shoeburyness	985.5	+28	E'S	3	c	39	85	7	5	-	2	7-8	9+	1500	1	*	39	35	34	19	8	0.0
Felixstowe	986.9	+22	E'N	3	rs	39	92	5	5	2	-	9	10	800	2	3	41	36	35	14	23	0.0
Gorleston	989.6	+20	ENE	7	rr	39	92	6	6	-	-	10	10	800	1	5	41	36	35	7	26	0.0
Mildenhall	988.5	+26	NE'E	5	ir	35	97	7	5	-	-	10	10	800	6	*	34	32	32	9	16	0.0
Cranwell	993.2	+32	NE	7	rs	37	92	5	6	-	-	10	10	800	6	*	33	30	31	9	12	0.0
Birmingham	991.6	+20	NE	5	rs	34	92	6	6	-	-	10	10	800	7	*	32	31	31	12	8	0.0
Upper Heyford	987.4	+30	NNE	5	rs	34	97	6	5	-	-	10	10	450	7	*	33	32	32	11	5	*
Ross-on-Wye																*	33			11		
Hartland Point																				5		
Bristol	986.9	+30	NE	6	rs	34	92	5	6	-	-	10	10	800	6	*	33	32	32	11	9	0.0
Portland Bill	982.2	+10	N	6	c	35	92	8	5	-	-	10	10	2500	2	5	45	34	*	26	4	*
Plymouth	987.4	0	N	5	r₀r₀	37	85	6	6	2	-	7-8	10	800	1	2	42	36	35	9	2	0.5
The Lizard	990.3	-10	N	5	pr	38	97	7	5	-	-	10	10	1500	1	3	47	35	*	9	3	2.3
Scilly (St. Mary's)	992.7	-4	N	7	phr	41	85	8	8	-	-	7-8	7-8	1500	1	4	43	37	*	0.4	3	4.3
Guernsey	981.6	-10	NW'N	4	c/r	38	92	7	8	-	-	10	10	800	1	5	48	36	35	6	6	0.0
Pembroke	995.4	+16	ENE	7	r₀r₀	39	75	7	8	-	-	10	10	1500	1	3	38	33	*	5	2	0.8
Holyhead	999.6	+18	NE	8	c/phr	42	75	7	8	7	-	4-6	10	1500	1	4	40	36	35	2	3	1.0
Chester (Sealand)	998.4	+24	N'E	5	c/pr	39	85	7	8	-	-	9+	9+	4000	1	*	35	33	32	1	2	0.0
Manchester	997.0	+18	NE'N	5	pr	39	75	8	8	3	-	7-8	9+	1500	1	*	36	34	33	0.4	2	0.0
Spurn Head	994.2	+18	ENE	8	rr	38	92	6	5	-	-	10	10	800	2	5	38	35	*	6	9	0.0
Catterick	1000.2	+16	NE	5	c	38	75	7	5	-	-	9	9	4000	6	*	33	32	32	3	13	0.0
Tynemouth	1002.9	+14	ENE	6	bc	42	65	8	2	-	-	4-6	4-6	1500	1	4	36	35	33	0.2	5	0.0
St Abbs Head	1005.5	+6	N	5	c	41	85	8	3	6	-	4-6	7-8	1500	1	4	37	34	*	0.5	1	*
Leuchars	1007.3	+4	NNE	2	bc	36	85	9	8	6	2	4-6	4-6	2500	4	*	37	33	30	10	5	0.8
Renfrew (Abbots I.)	1008.4	+10	NNE	3	bc	37	75	8	5	5	-	2-3	2-3	2500	7	*	35	31	24	-	3	4.8
Eskdalemuir	1005.4	+10	NNE	5	c	34	92	7	5	-	-	7-8	7-8	1500	8	*	32	30	29	0.5	2	0.0
Point of Ayre	1004.1	+12	NE	7	c	40	75	8	8	2	-	2-3	9	1500	1	4	37	36	*	1	0.1	0.3
Tiree	1011.5	+6	ESE	5	bc	42	85	8	2	4	-	2-3	2-3	2500	0	4	38	37	35	1	-	1.7
Stornoway	1015.0	+4	N	5	bc/pr	38	85	8	8	-	-	4-6	4-6	2500	1	3	41	37	*	4	2	2.5
Dalwhinnie	1010.6	0	N	5	c	34	85	5	5	-	-	10	10	1500	7	*	28	27	25	4	4	0.0
Aberdeen	1007.7	-4	N'W	2	PR	36	97	5	5	-	-	7-8	7-8	800	4	1	37	33	29	3	2	0.2
Wick	1010.0	-4	N	5	bcq	41	92	8	5	7	-	4-6	4-6	1500	1	2	41	37	*	0.5	0.6	*
Lerwick	1010.2	+2	NE	6	c/phr	41	75	8	8	7	-	4-6	7-8	800	1	*	41	33	*	1	2	0.0
Blacksod Point	1011.8	+22	NE	5	bcq	42	85	8	3	-	-	2-3	2-3	1500	1	4	40	34	*	8	1	*
Malin Head	1011.5	+22	NE'E	5	bc	42	85	8	7	4	-	4-6	4-6	5700	*	4	39	34	*	1	Tr	1.7
Aldergrove	1007.5	+20	NNE	4	c	37	75	7	5	-	-	7-8	7-8	4000	1	*	35	29	23	0.5	0.6	3.8
Birr Castle	1006.1	+18	NNW	3	bc	34	92	8	5	-	-	2-3	2-3	2500	1	*	36	29	24	1	-	2.6
Valentia Obsy. †	1009.0	+32	NNE	6	bc	40	65	7	9	-	-	4-6	4-6	1500	1	4	41	33	31	2	4	2.2
Roches Point	1003.4	+26	N	6	bc	38	85	8	5	-	-	2-3	2-3	2500	1	3	39	33	*	Tr	-	*

LONDON OBSERVATIONS

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except for rainfall which is 9h—18h.

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h. (To-day)
Kew ...	18	osSSfs	orsfssrs	orsrsm	35	33	32	23	4	0.0	*	*	5
Croydon ...	217	rsrsssss	sfrsSf	ossfcm	34	32	32	16	3	0.0	*	*	4
Greenwich (Royal Observatory)...	149	ss	ss	rsrsc	34	33	31	15	5	0.0	99	93	5
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	39	34	32	21		0.0	96	91	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	37	33	33	5	22	0.0	100	90	*
Camden Square ...	110	os	os	*	34	33	31	25	5	*	*	96	*
Kensington ...	80	cf	cs	*	34	34	32	12	13	0.0	At 18h. 94	91	*
Hampstead Observatory ...	450	os	os	os	33	32	24	15	4	0.0	*	99	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 26th

	Max.	Time.	Min.	Time.
South Kensington.	1.0	10-13h 25th	<0.3	2-4h. 26th
Kew Observatory.	Defective record			

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 25th January. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 26th January. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris ...	988.6	S	5	ir₀	41	988.1	SW	5	c	34	43	34	Tr	5
Brussels ...	992.3	SE'E	5	ir₀	39	989.6	SSE	3	c	36	41	36	Tr	1
Berlin ...	1005.8	—	0	c	36	1001.5	E	3	z₀	32	45	30	-	-
Zurich ...	1002.7	SE	1	c	36	1000.3	WNW	3	c/s	34	41	32	-	2
Rome ...	1004.9	WNW	2	bc	52	1001.6	ESE	4	c	50	*	*	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.

The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.

THE BEAUFORT SCALE OF WIND is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	<1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	> 75
		8	39–46		

COLUMNS 34, 35.

Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1½ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6¼ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30.—Code for State of Sea.

0 Calm.	5 Very rough.
1 Smooth.	6 High.
2 Slight.	7 Very high.
3 Moderate.	8 Precipitous.
4 Rough.	9 Confused.

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY, LONDON, W.C.2. N. K. JOHNSON, M.Sc., A.R.C.S., Director.

† 1 hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday, 27th January, 1939.

No. 28190.

JHL LDB

OBSERVATIONS at 13h. G.M.T. 26th January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud. Form. Low (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	991.3	+24	NNE	5	N_o	37	85	5	5	-	-	10	10	1500
	Croydon ...	990.8	+26	NE'N	4	of	36	92	5	5	-	-	10	10	450
	S. Farnborough	990.7	+28	NE'N	4	N_o	37	85	6	5	-	-	10	10	1500
	Boscombe Down	991.1	+30	NNE	5	c	35	92	7	5	7	-	7-8	9+	1500
	Calshot (Sthmtn.)	989.4	+36	NNE	4	N_o	39	92	5	8	2	-	4-6	10	1500
	Lympne ...	991.1	+22	E	4	c	39	75	8	8	-	2	7-8	9+	1500
	Manston ...	991.2	+30	ESE	3	c	38	75	7	5	7	-	9	9+	1500
2	Shoeburyness ...	991.7	+18	E'S	4	c	41	85	8	8	7	-	7-8	9+	1500
	Felixstowe ...	992.2	+22	ENE	3	ir	39	85	6	5	2	-	9	10	800
	Gorleston ...	994.4	+20	NE'N	6	r	38	92	6	6	-	-	10	10	800
	Mildenhall ...	993.5	+22	NE'E	5	$r_o r_o$	37	92	6	5	-	-	10	10	800
	Cranwell ...	997.6	+18	NE'N	6	$r_o r_o$	38	92	7	5	-	-	9+	10	800
3	Birmingham ...	997.4	+22	NNE	5	rs	36	92	5	6	-	-	10	10	450
	Upper Heyford	993.7	+18	NE'N	5	rs	35	92	6	5	-	-	10	10	450
4	Ross-on-Wye														
5	Hartland Point	994.7	+34	NNE	5	c	41	85	8	8	2	-	7-8	10	800
	Bristol ...	993.7	+34	NE'N	5	rs	35	92	6	5	-	-	10	10	800
	Portland Bill ...	989.2	+34	NNE	5	c	36	92	8	5	7	-	7-8	10	2500
	Plymouth ..	993.2	+30	NNE	6	ir	40	75	7	6	2	-	9+	10	1500
	The Lizard ...	994.0	+32	NNW	6	c	39	92	6	8	2	-	7-8	9+	1500
	Scilly (St. Mary's)	997.0	+22	NNE	8	c/r	43	75	7	8	2	-	7-8	9+	1500
	Guernsey	995.4	+28	N	5	c/r	41	85	6	8	-	-	9+	10	1500
6	Pembroke ...	1000.2	+28	ENE	7	cq	42	65	7	8	6	-	7-8	9+	1500
7	Holyhead ...	1003.1	+16	NNE	7	c	43	75	8	2	8	1	4-6	9+	2500
	Chester (Sealand)	1002.3	+16	N	5	N_o	41	75	6	5	2	-	2-3	10	2500
8	Manchester ...	1001.7	+14	NNE	5	N_o	40	75	6	5	7	-	2-3	9+	2500
10	Spurn Head ...	999.4	+4	NE	7	cq	40	75	7	5	2	-	7-8	10	1500
	Catterick ...	1003.6	+6	NE'N	5	c	40	75	7	9	-	6	4-6	9+	1500
	Tynemouth ...	1004.8	+6	NE	6	c	42	65	8	2	6	-	4-6	7-8	1500
11	St. Abbs Head ...	1007.1	+4	NNE	3	c/p	40	85	8	8	6	9	4-6	7-8	2500
	Leuchars ...	1008.3	+4	NNW	2	c	38	85	8	8	6	1	4-6	7-8	1500
12	Renfrew (Abbotsl.)	1005.8	+6	N'E	3	bc	39	85	9	4	6	-	2-3	4-6	5700
	Eskdalemuir ...	1006.7	+4	NNE	4	rs	36	92	7	9	-	-	9	9	1500
	Point of Ayre ...	1006.4	+4	NE	6	pr	42	85	8	3	6	5	4-6	9	1500
13A	Tiree	1012.7	0	N	6	c	43	92	8	8	-	-	7-8	7-8	1500
13B	Stornoway ...	1016.6	+10	N	6	pr	40	85	7	8	7	-	7-8	9	2500
15	Dalwhinnie ...	1011.8	+2	NNE	5	is	34	92	6	5	2	-	4-6	10	1500
	Aberdeen ...	1005.2	+8	N	3	c/pr	38	92	7	9	3	-	4-6	7-8	800
	Wick ...	1011.8	+8	NNE	6	cq	43	85	8	5	7	4	4-6	7-8	1500
16	Lerwick ...	1012.0	+4	NNE	6	c/pr	42	75	8	8	7	-	4-6	7-8	1500
17	Blacksod Point	1013.8	+8	NE	7	bcq	43	85	8	9	-	-	4-6	4-6	1500
18	Malin Head ...	1012.1	+4	N'E	5	c	43	85	8	4	-	9	2-3	7-8	5700
	Aldergrove ...	1009.1	+2	NNE	4	bc	40	75	9	8	-	4	2-3	4-6	4000
19	Birr Castle ...	1009.8	+6	NNW	3	c	40	75	7	5	-	8	4-6	7-8	2500
20	Valentia Obsy. †	1012.8	+16	NNE	6	bc	44	65	8	2	8	1	4-6	4-6	2500
	Roches Point	1007.7	+20	N'E	5	c	41	75	9	1	-	5	1	7-8	4000

OBSERVATIONS at 18h. G.M.T. 26 January

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud. Form. Low (23)	Cloud. Form. Med. (24)	Cloud. Form. High (25)	Cloud. Amount. Low 0–10 (26)	Cloud. Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
1	London (Kew)	997.0	+34	NNE	3	$r_o r_o$	36	92	5	5	-	-	10	10	1500	1	*
	Croydon ...	996.6	+32	NE	3	f	35	97	8	-	-	-	10	10	<150	4	*
	S. Farnborough	999.7	+42	NE'N	3	ir	35	97	5	5	-	-	10	10	450	7	*
	Boscombe Down	997.5	+38	NNE	4	$r_o r_o$	34	97	6	5	2	-	9+	10	800	7	*
	Calshot (Sthmtn.)	996.4	+30	N	4	N_o	37	85	6	5	-	1	4-6	4-6	1500	1	3
	Lympne ...	996.1	+30	NE	3	c	36	85	7	5	-	-	7-8	7-8	4000	1	§3
	Manston ...	995.6	+26	E	2	bc	36	65	7	5	-	6	2-3	4-6	1500	1	*
2	Shoeburyness ...	997.2	+34	ESE	4	c	39	75	8	5	3	-	4-6	7-8	5700	1	*
	Felixstowe ...	997.1	+28	NE	4	rr	37	85	6	-	2	-	10	10	450	2	2
	Gorleston ...	998.3	+26	NE'N	6	$r_o r_o$	39	92	6	6	-	-	10	10	1500	1	5
	Mildenhall ...	998.2	+28	NE'E	4	$r_o r_o$	38	92	6	6	2	-	9	10	800	8	*
	Cranwell ...	1001.5	+24	NE'N	5	$r_o r_o$	37	85	7	5	2	-	9	10	800	1	*
3	Birmingham ...	1001.9	+28	N	4	c	36	85	6	6	-	-	10	10	800	6	*
	Upper Heyford	999.3	+24	NNE	4	ss	33	97	4	5	-	-	10	10	450	7	*
4	Ross-on-Wye																*
5	Hartland Point	999.8	+20	NNE	8	c	41	75	7	8	6	-	7-8	9+	800	1	5
	Bristol ...	999.7	+30	NE	6	$r_o r_o$	36	85	5	5	2	-	7-8	10	800	6	*
	Portland Bill ...	996.3	+32	NE	4	c	37	92	8	5	-	-	10	10	2500	1	4
	Plymouth ..	998.3	+30	N	5	N_o	40	65	6	5	4	-	9	9+	1500	1	2
	The Lizard ...	1000.1	+44	N'W	5	c	41	85	7	8	-	-	9	9	1500	1	3
	Scilly (St. Mary's)	1001.3	+28	NNE	7	phr	43	65	7	8	4	-	4-6	9	1500	1	5
	Guernsey	992.2	+40	NNE	5	cq	41	75	6	8	-	-	7-8	7-8	1500	1	5
6	Pembroke ...	1003.7	+20	NE'E	6	cq	41	65	7	8	6	1	4-6	9	1500	1	3
7	Holyhead ...	1005.8	+18	NE'N	6	c	41	85	8	8	8	-	4-6	7-8	2500	1	3
	Chester (Sealand)	1005.2	+20	N	3	N_o	38	85	5	5	-	-	4-6	4-6	2500	1	*
8	Manchester ...	1004.6	+22	N'E	4	N_o	38	75	5	5	7	-	4-6	7-8	4000	1	*
10	Spurn Head ...	1001.7	+20	NE'E	6	cq	39	75	7	6	2	-	4-6	7-8	1500	1	4
	Catterick ...	1006.0	+14	N'E	4	c/pr	36	92	6	9	2	-	7-8	9	800	4	*
	Tynemouth ...	1006.8	+14	NE	5	c	42	65	8	8	-	-	7-8	7-8	1500	1	3
11	St. Abbs Head ...	1009.0	+14	NE	3	pr	39	85	8	3	6	-	4-6	9+	2500	1	3
	Leuchars ...	1010.4	+14	N	2	bc/pr	36	85	8	9	7	3	2-3	4-6	800	4	*
12	Renfrew (Abbotsl.)	1011.3	+14	NNE	4	bc	35	75	8	4	-	-	4-6	4-6	4000	4	*
	Eskdalemuir ...	1008.7	+12	NNE	4	rs	35	85	7	6	-	-	9+	9+	800	4	*
	Point of Ayre ...	1008.1	+10	NE	5	bc	40	85	8	8	4	-	4-6	4-6	2500	1	3
13A	Tiree	1013.7	+10	N	5	bc	42	92	8	8	4	-	2-3	2-3	2500	0	4
13B	Stornoway ...	1017.6	+12	N	6	pr	39	85	7	8	7	-	7-8	9	1500	1	3
15	Dalwhinnie ...	1013.2	+18	N	3	c	33	92	6	5	-	-	10	10	1500	7	*
	Aberdeen ...	1011.5	+18	N	3	bc	38	75	7	4	-	9	1	2-3	1500	4	3
	Wick ...	1013.5	+10	NNE	7	c/phr	42	85	8	8	6	9	4-6	7-8	1500	1	3
16	Lerwick ...	1013.9	+8	NNE	6	c	40	85	8	8	7	-	4-6	7-8	1500	1	*
17	Blacksod Point	1014.7	+6	NE	6	bc	43	85	8	9	-	-	4-6	4-6	2500	1	4
18	Malin Head ...	1013.2	+6	N'E	5	c	43	85	8	8	5	-	4-6	7-8	4000	0	4
	Aldergrove ...	1010.2	+8	NNE	3	bc	37	85	9	8	-	-	2-3	2-3	2500	1	*
19	Birr Castle ...	1010.2	+10	NNW	2	c	40	85	7	5	1	-	9	10	2500	1	*
20	Valentia Obsy. †	1012.8	+10	NE'N	5	r	43	65	8	2	-	-	7-8	7-8	2500	1	4
	Roches Point	1009.4	+16	N'E	4	c	40	85	9	5	-	3	2-3	4-6	2500	1	3

PAST 24 HOURS.

District	Stations	Weather. 7h.–13h. 26th (37)	Weather. 13h.–18h. 26th (38)	Weather. 18h. 26th to 1h. 27th (39)	Weather. 1h.–7h. 27th (40)
1	London (Kew)	cm.	$cm_o r_o$	$cr_o cr_o$	$r_o r_o cr_o$
	Croydon ...	cm_o mirf	of irrisf	$fm_o rsir_o$	$om_o rr_o$
	S. Farnborough	cm_o	$cm_o ir_o c$	cld.r_o	$cr_o id.o$
	Boscombe Down	cos.s.c	$ir_o id.r_o r_o$	$cr_o r_o d.d_o$	c
	Calshot (Sthmtn.)	cm_o	$cm_o bcm_o$	$cm_o bm_o o$	$om_o c$
	Lympne ...	c	c	bccm.x	bcxcrs.m
	Manston ...	c	cbc	bcc	$cir_o r_o r_o m_o$
2	Shoeburyness ...	$cpr_o c$	$cpr_o c$	corsrr$_o$	$cir_o m_o c$
	Felixstowe ...	cbsrsm$_o$	cphrorr	orrm$_o$	orrm$_o$
	Gorleston ...	$orr_o q$	$orr_o r_o q$	$or_o r_o q$	$or_o r_o q$
	Mildenhall ...	irrr$_o$i$_o$m	$cr_o r_o rsir$	$cr_o r_o m_o$	$cir_o r_o m_o$
	Cranwell ...	$or_o s_o r_o r_o$	$or_o r_o$	$cr_o r_o c$	c
3	Birmingham ...	oirs	rs ir_o	$or_o c$	cbc
	Upper Heyford	$cr_o s_o r_o s_o m_o$	$cs_o s_o rss m_o$	$os_o s_o m_o$	cbcm.
4	Ross-on-Wye			cqc	coc
5	Hartland Point	$rsr_o r_o cs$	c	$ir_o c$	c
	Bristol ...	$crs_o q$	$crs_o r_o q$	$cir_o q$	cm_o
	Portland Bill ...	c	c	c	c
	Plymouth ..	$cr_o r_o m_o c$	$cir_o s_o c$	$cir_o z_o o$	o,b
	The Lizard ...	rrpnc	c	C	C
	Scilly (St. Mary's)	$cphrir_o$	$cp_o phr_o$	$cp_o c$	cbccp
	Guernsey	cirhq	cphrq	cq bc	coir$_o$
6	Pembroke ...	$cir_o q$	cq	cq bc	bc
7	Holyhead ...	prc	c	cbcwb	bphr$_o$c
	Chester (Sealand)	cz_o	$cbcr_o z_o$	cbcm$_o$	cm_o
8	Manchester ...	$pr_o ccz_o$	cz_o	czobcz$_o$	bcz$_o$c
10	Spurn Head ...	opr_o	cq	cq	c
	Catterick ...	phr$_o$ph	$pr_o cm_o$	$ccm_o pr_o$	cphr
	Tynemouth ...	bccpc	cbcpc	cpc	cp
11	St. Abbs Head ...	phrc	cpr	c	phrc
	Leuchars ...	bccbc	bccbcpr	bc,pr.cx	cxbcx
12	Renfrew (Abbotsl.)	bccbc	bccbc	bcc	cbbc
	Eskdalemuir ...	crsrs	$crs_o rs_o$	$rs_o rs_o bc$	cirs
	Point of Ayre ...	c	$pr_o c$	bcc	bcc
13A	Tiree	bc	cbc	bc	bc
13B	Stornoway ...	bccphrpr	cpr	bcprcphr	cbcphrpr
15	Dalwhinnie ...	CSS	cis	*	cis
	Aberdeen ...	cprcphr	cprbcb	$b_o cir$	$cor_o bc$
	Wick ...	PRSq	cphrq	PRbc	bcprq
16	Lerwick ...	cphrpr	cprq	cirs	cirs iRS
17	Blacksod Point	prbcq	bcq	prcq	bc
18	Malin Head ...	bcc	cbcc	cbcc	cbc
	Aldergrove ...	cbc	bc	bcbc	bc
19	Birr Castle ...	bcc	c	c	cx
20	Valentia Obsy. †	bcbbc	bcc	$cpr_o c$	c
	Roches Point	bcc	cbc	bc	bc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s_o, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s_o/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height). ⚡ gale.
⊕, Solar halo. ☾ lunar halo. ⌒ Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. „ wet.
2 .. „ flooded.
3 .. „ frozen hard and dry.
4 .. „ partly covered with snow or hail.
5 .. „ covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. „ covered with snow, less than 6 ins., deep but ground not frozen.
8 .. „ covered with snow, less than 6 ins., but ground frozen
9 .. „ covered with snow greater than 6 ins deep.

NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

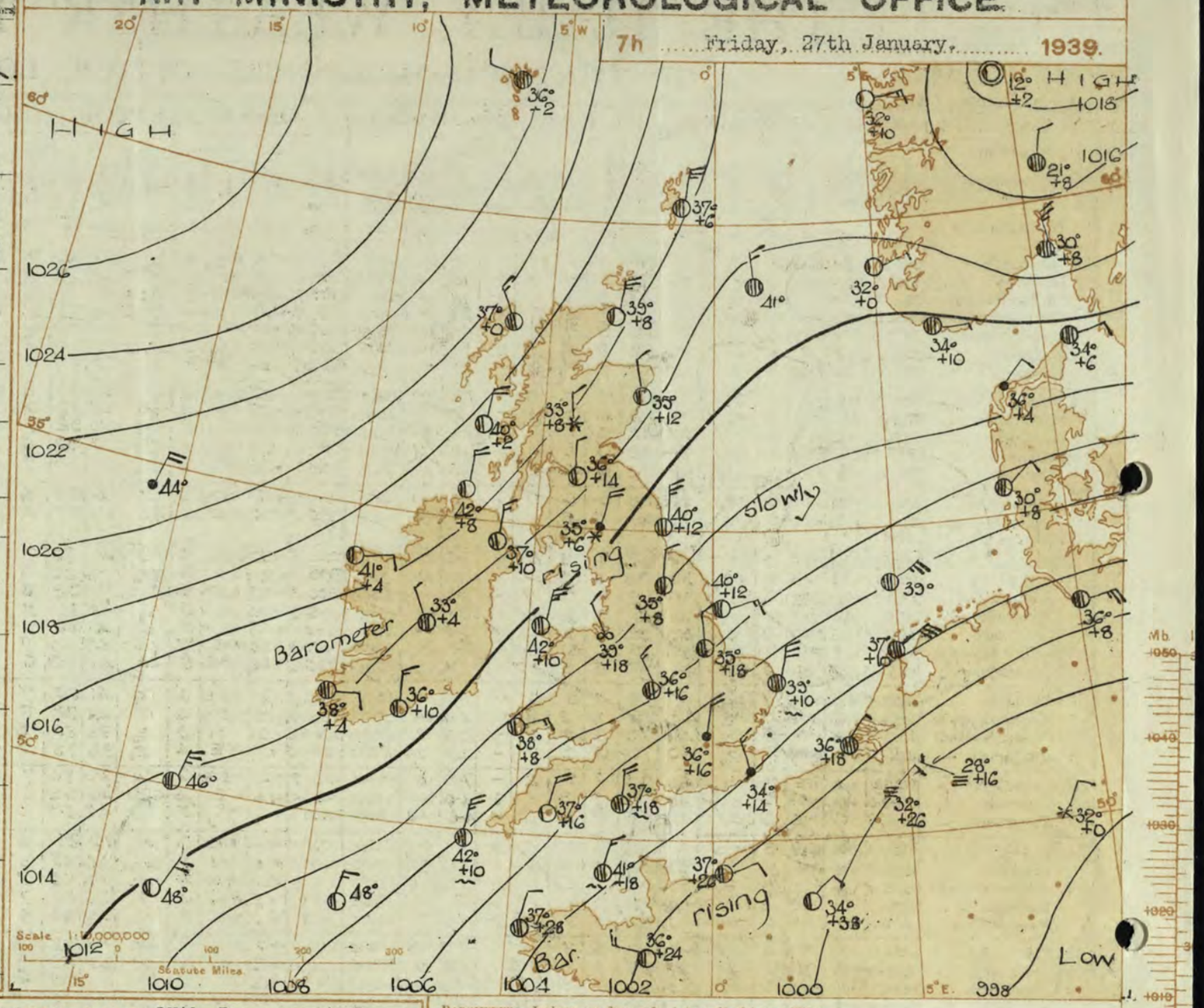
§ disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 26th January 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F.) Min. 9h. 25th to 9h. 26th	Temperature. (°F.) Max. 9h.—17h. 26th	Rainfall. (mm.) Night. 17h. 25th to 9h. 26th	Rainfall. (mm.) Day. 9h.—17h. 26th	Sunshine. Sunrise to Sunset. 26th
1	Tunbridge W.	co	ocb	32	37	10	–	0·2
	Bournemouth	c	o	32	39	11	–	0·8
	Ventnor ...	rsoro	ou.	33	39	5	–	0·0
	Southsea ...	oc	c	35	40	3	–	0·0
	Bognor Regis	oir	oocc	36	40	7	Trace	0·0
	Littlehampton	ccbcp	bcc	36	41	5	0·2	0·6
	Worthing ...	cr₀bc	cbc	36	40	6	0·5	0·4
	Brighton ...	rc	c	36	39	9	2	0·0
	Eastbourne† ...	rcro	o	38	42	5	1	0·0
	Hastings† ...	opo	occ	36	43	8	1	0·0
	Folkestone ...	o	co	34	40	11	–	0·4
	Dover ...	c	cq	36	41	12	–	0·1
	Deal	o	co	36	40	10	–	0·1
	Ramsgate ...	c	c	35	39	17	–	0·0
	Margate ...	c	cbc	35	40	21	–	0·0
2	Southend ...	oco	oco	34	40	9	–	0·1
	Clacton-on-Sea	cd₀c	cu	35	41	29	0·1	0·0
	Dovercourt ...	roc	roc	35	40	36	6	0·0
	Lowestoft ...	oir	oir	34	39	25	5	0·0
	Skegness ...	od	od	34	41	14	2	0·0
	Mablethorpe...	oro	o	33	41	13	0·5	0·0
	Cleethorpes ...	cr₀c	c	32	41	8	Trace	0·0
3	Leamington S.	ors	or	33	37	22	5	0·0
4	Cheltenham†	oss	osrs₀	32	36	17	7	0·0
5	Bath	r₀r₀	r₀r₀	33	38	22	4	0·0
	Weymouth ...	c	c	33	40	12	–	1·1
	Jersey ...	rcpc	cbcp	37	44	8	0·5	1·5
	Torquay ...	oq	coq	34	40	4	Trace	0·0
	Falmouth	q.krqo	o	34	41	6	0·5	0·0
	Penzance ...	qrqr	rqcc	35	43	10	2	0·0
	St. Ives ...							
	Bude... ...	r	cq	33	42	4	3	0·0
	Ilfracombe ...	coco	ococ	35	43	–	–	0·0
6	Aberystwyth	prc	c	35	42	2	–	0·0
7	Llandudno ...	c	c	35	42	2	–	0·2
	Colwyn Bay...	ccoo	cbcbc	34	41	0·5	–	1·0
	Rhyl	c	cbc	33	42	4	–	0·0
8	Wallasey ...	c	cbc	32	41	1	–	0·0
	Southport ...	cp₀c	cbc	33	41	0·3	Trace	0·0
	Blackpool ...	cp₀c	cbcb	33	41	0·3	Trace	1·5
	Morecambe ...	cbc	bbc	33	41	2	–	2·1
9	Ilkley... ...	oc	c	32	39	8	–	0·0
	Harrogate ...	cbc	bcc	31	39	6	–	1·3
10	Berwick-on-T.	cir₀	phrc	33	42	1	1	1·4
11	Dunbar ...	cprs	cpr	31	42	10	3	0·0
12	Troon... ...	xocbc	bcbcc	31	42	0·3	–	2·3
	Douglas ...	bcpr₀	bcq	33	41	Trace	–	3·3

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 27th January, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Wind north to northeast moderate, becoming light; cloudy with occasional slight sleet or drizzle; fog developing in places inland tonight; cold with frost at night.
5 S.W. England 6 South Wales ... 7 North Wales ... 8 N.W. England	Wind north to northeast light or moderate; mainly bright but some local showers; fog in places at night; cold with sharp frost at night.
9 N. Midlands ... 10 N.E. England 11 S.E. Scotland	As 1 - 4.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. / B.N.W. Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland 17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland.	As 5 - 8.

GENERAL INFERENCE.

An anticyclone south of Iceland is moving slowly southwards. Winds will continue from a northeasterly direction but are tending to become light. Apart from slight drizzle or sleet showers near the east coast the weather will be mainly fair and cold with frost or fog at night.

FURTHER OUTLOOK.

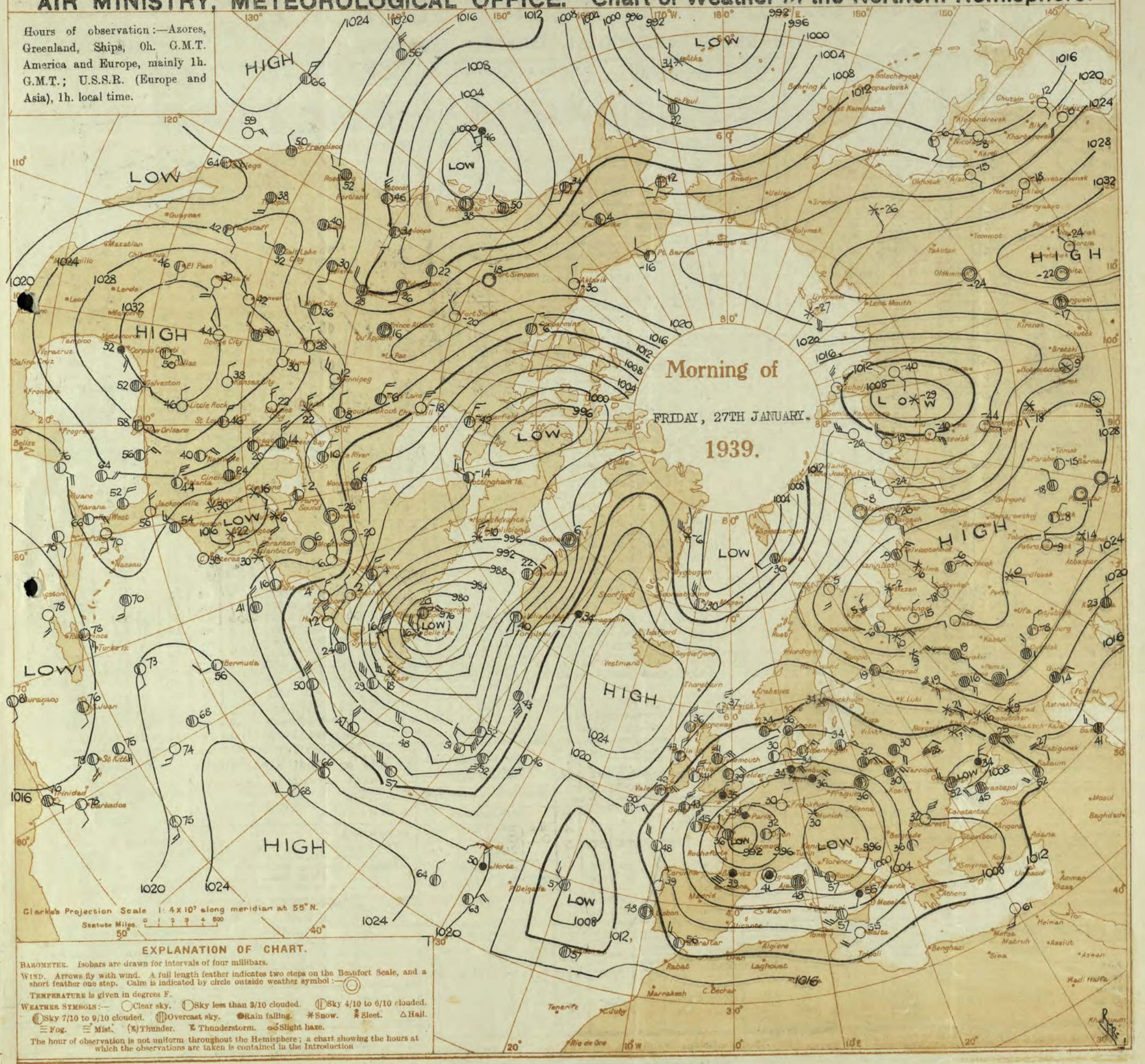
Continuing cold.

Forecasts issued at 1000 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S
Director.

H.M. Stationery Office Press, Kingsway, W.C.2.
G.738/3683. K. 2696. D. 3769. Gp. 348. 29140. 1/39

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol:—

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS:— Clear sky. Sky less than 3/10 clouded. Sky 4/10 to 6/10 clouded. Sky 7/10 to 9/10 clouded. Overcast sky. Rain falling. Snow. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday, 27th January, 1939.
No. 28190.

OBSERVATIONS at 1 hr. G.M.T. 27th January

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0–9 (8)	Cloud. Form. Low (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0–10 (12)	Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1001·6	+20	NNE	3	ir.	35	97	5	5	–	–	10	10	450
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1001·0	+18	NE	2	c	34	85	7	5	–	–	7-8	7-8	4000
	Manston ...	154	1000·2	+14	ENE	1	c	37	75	7	5	–	–	9+	9+	2500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1002·3	+14	NNE	4	r.r.	37	92	6	6	–	–	10	10	1500
	Mildenhall ...	19	1002·5	+14	NEN	4	r.r.	38	85	6	5	–	–	10	10	800
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1005·4	+20	NNE	5	c	39	85	8	8	4	–	4-6	9	1500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1002·4	+28	NNE	4	c	37	92	7	5	–	–	10	10	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1004·6	+14	N	4	c	39	85	7	8	2	–	7-8	9+	1500
	Scilly (St. Mary's)	163	1006·0	+20	NNE	6	c	43	65	8	8	–	–	7-8	7-8	1500
	Guernsey ..	175	1003·1	+20	NE	3	bc	40	85	6	2	–	–	2-3	2-3	2500
6	Pembroke ...	142	1007·8	+8	NEE	4	bc	38	75	8	5	–	–	2-3	2-3	2500
7	Holyhead ...	26	1009·1	+6	NNE	5	bc	41	75	8	2	4	–	2-3	2-3	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1005·1	+6	NEE	4	c	39	65	8	5	–	–	9+	9+	800
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1009·1	+8	NE	5	c	41	65	8	9	–	–	7-8	7-8	1500
11	St Abbs Head ..	280	1011·1	+6	NNE	3	c	39	85	8	3	6	–	4-6	7-8	2500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1011·1	+12	NNE	4	c	40	85	8	8	2	–	7-8	10	2500
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1019·0	+8	NNW	4	c/phr	36	92	7	8	–	–	7-8	7-8	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1015·4	+4	N	5	bc	39	97	7	5	7	–	4-6	4-6	1500
16	Lerwick ...	156	1015·3	+2	NNE	5	c/rs	37	92	8	8	7	–	4-6	7-8	1500
17	Blacksod Point	18	1015·7	+2	NE	6	bcq	43	85	8	9	–	–	4-6	4-6	2500
18	Malin Head ...	84	1015·3	+14	N	4	c	43	85	7	8	6	–	4-6	7-8	4000
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1013·7	0	NE	5	c/pr	42	97	8	8	–	–	7-8	7-8	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 27th January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud. Form. Low (23)	Form. Med. (24)	Form. High (25)	Amount. Low 0–10 (26)	Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
London (Kew)	1005·4	+20	NNE	3	r.r.	37	85	7	5	–	–	10	10	1500	1	*
Croydon ...	1004·7	+16	NE	4	ir.	36	92	5	5	–	–	10	10	800	1	*
S. Farnborough	1005·1	+20	N	3	d.d.	36	85	6	6	–	–	10	10	1500	6	*
Boscombe Down	1006·3	+10	NE	5	c	35	85	7	5	3	–	7-8	10	1500	4	*
Calshot (Sthmtn.)	1005·6	+14	N	4	c	38	85	7	5	–	–	10	10	1500	1	2
Lympne ...	1004·3	+14	NW	3	r.r.	34	97	6	–	2	–	9+	9+	2500	1	§2
Manston ...	1003·6	+18	NW	2	ir.	35	92	6	6	2	–	7-8	10	1500	1	*
Shoeburyness ...	1004·6	+20	N	3	ir.	37	97	6	5	–	–	10	10	1500	1	*
Felixstowe ...	1004·7	+20	NE	4	r.r.	38	92	6	5	–	–	10	10	800	2	3
Gorleston ...	1005·0	+10	NNE	6	c/r	39	92	7	6	–	–	10	10	1500	1	4
Mildenhall ...	1006·2	+20	NNE	3	c/r	37	85	6	5	–	–	10	10	800	1	*
Cranwell ...	1008·1	+18	N	2	c	35	85	7	5	–	–	9	9	2500	1	*
Birmingham ...	1008·7	+16	NNW	3	c	36	85	6	5	–	–	10	10	1500	6	*
Upper Heyford	1007·4	+10	NNE	3	bc	34	85	6	5	1	–	Tr	4-6	1500	7	*
Ross-on-Wye	*	+14	NNW	2	c	35	85	6	5	–	–	10	10	2500	1	*
Hartland Point	1007·6	+10	N	4	c	39	85	8	5	2	–	4-6	9	1500	1	3
Bristol ...	1007·7	+12	NNE	3	c	36	85	6	5	3	–	4-6	9	800	8	*
Portland Bill ...	1005·6	+18	NNE	4	c	37	85	7	5	7	–	7-8	10	2500	1	4
Plymouth ...	1007·6	+16	NNE	4	b	37	75	7	5	–	–	1	1	1500	1	2
The Lizard ...	1007·7	+14	N	4	c	38	85	7	8	2	–	7-8	9+	1500	1	3
Scilly (St. Mary's)	1007·8	+10	NEN	5	c/pr	42	65	8	8	–	–	7-8	7-8	1500	1	4
Guernsey ..	1004·2	+18	NNE	3	c/r	41	85	8	8	–	–	9+	9+	2500	1	4
Pembroke ...	1005·1	+8	ENE	3	bc	38	75	8	5	–	–	4-6	4-6	2500	1	2
Holyhead ...	1010·8	+10	NEN	5	c/phr	42	75	8	8	–	–	10	10	2500	1	3
Chester (Sealand)	1011·0	+18	NNW	2	z.	39	85	6	5	–	–	10	10	2500	1	*
Manchester ...	1010·7	+20	NEN	3	ir.	38	85	6	5	7	–	9	10	2500	1	*
Spurn Head ...	1008·5	+12	ENE	3	c	40	75	7	5	–	–	10	10	1500	0	3
Catterick ...	1010·9	+8	NE	2	c/phr	35	82	7	4	–	–	7-8	7-8	1500	1	*
Tynemouth ...	1011·0	+12	N	5	c/pr	40	85	8	9	–	–	9	9	1500	1	3
St Abbs Head ..	1012·8	+10	NNE	4	c	41	75	8	3	6	–	4-6	9+	2500	0	3
Leuchars ...	1014·2	+8	N	2	c	37	75	9	4	3	–	4-6	7-8	4000	3	*
Renfrew (Abbots I.)	1015·4	+14	N	1	bc	46	85	8	5	5	–	1	2-3	2500	1	*
Eskdalemuir ...	1013·3	+6	NNE	4	rs	35	85	6	5	–	–	9+	9+	1500	5	*
Point of Ayre...	1013·0	+8	NEN	5	c	40	85	8	5	4	–	4-6	7-8	4000	1	3
Tiree ...	1017·2	+2	NE	4	bc	40	92	8	5	4	–	2-3	2-3	2500	0	*
Stornoway ...	1019·5	0	NNW	3	c/pr	37	85	7	8	–	–	7-8	7-8	1500	1	2
Dalwhinnie ...	*	+8	N	2	ss	33	97	5	6	–	–	10	10	800	7	*
Aberdeen ...	1015·2	+12	NW	2	bc	35	97	7	8	–	–	2-3	2-3	1500	4	3
Wick ...	1016·8	+8	NNE	5	bc/pr	39	97	8	8	6	–	4-6	4-6	1500	1	2
Lerwick ...	1016·1	+6	NNE	5	c/ps	37	97	7	8	2	–	7-8	9+	800	1	*
Blacksod Point	1016·5	+4	E	2	bc	41	85	8	4	–	–	2-3	2-3	2500	0	2
Malin Head ...	1016·6	+8	NE	4	bc	42	85	8	4	–	–	4-6	4-6	5700	0	3
Aldergrove ...	1014·5	+10	NNE	3	bc	37	85	8	5	–	–	2-3	2-3	2500	1	*
Birr Castle ...	1013·6	+4	NNW	1	c	33	97	7	5	–	–	4-6	7-8	1500	1	*
Valentia Obsy. †	1015·2	+4	EN	2	c	38	75	8	5	–	–	7-8	7-8	2500	1	2
Roches Point	1012·9	+10	N	3	bc	36	85	8	5	–	–	4-6	4-6	2500	1	2

PAST 24 HOURS.

Stations	Temperature. Max. Day 7h–18h °F. (31)	Min. Night 18h–7h °F (32)	Min. on Grass °F. (33)	Rainfall. Day 7h–18h mm. (34)	Night 18h–7h mm. (35)	Sunshine 26th Hrs. (36)
London (Kew)	38	35	35	Tr	1	0·0
Croydon ...	37	33	33	Tr	1	0·0
S. Farnborough	37	35	34	0·1	1	0·0
Boscombe Down	35	32	31	0·5	0·5	0·0
Calshot (Sthmtn.)	40	35	33	–	–	0·1
Lympne ...	40	31	25	–	0·2	0·7
Manston ...	39	35	29	–	3	0·0
Shoeburyness ...	41	35	32	0·1	3	0·2
Felixstowe ...	41	35	33	5	8	0·0
Gorleston ...	39	37	36	11	5	0·0
Mildenhall ...	38	36	35	5	4	0·0
Cranwell ...	38	35	32	3	Tr	0·
Birmingham ...	36	34	31	2	0·2	0·0
Upper Heyford	35	32	30	9	3	*
Ross-on-Wye		35	31		–	0·0
Hartland Point	41	35	33	Tr	Tr	0·0
Bristol ...	36	35	30	4	Tr	0·0
Portland Bill ...	39	34	*	–	–	*
Plymouth ...	41	37	34	0·6	0·1	0·0
The Lizard ...	41	36	*	1	–	0·6
Scilly (St. Mary's)	43	40	*	0·1	0·1	0·0
Guernsey ..	42	37	35	4	0·4	0·1
Pembroke ...	43	37	*	Tr	–	0·0
Holyhead ...	43	40	38	Tr	Tr	3·0
Chester (Sealand)	41	34	33	Tr	–	0·0
Manchester ...	40	36	31	Tr	Tr	0·0
Spurn Head ...	40	39	*	0·8	–	0·0
Catterick ...	40	34	33	2	1	2·0
Tynemouth ...	43	37	35	0·3	2	1·7
St Abbs Head ..	41	36	*	2	2	*
Leuchars ...	38	35	29	0·3	Tr	1·2
Renfrew (Abbots I.)	41	35	27	–	–	1·0
Eskdalemuir ...	36	33	31	4	2	0·5
Point of Ayre...	42	39	*	Tr	–	2·2
Tiree ...	44	39	37	–	–	5·0
Stornoway ...	41	34	*	2	2	1·5
Dalwhinnie ...	35	32	28	3	4	0·3
Aberdeen ...	40	34	31	1	2	1·1
Wick ...	44	38	*	3	1	*
Lerwick ...	43	34	*	1	6	2·6
Blacksod Point	44	40	*	0·1	0·2	*
Malin Head ...	44	40	*	–	–	1·1
Aldergrove ...	41	35	30	–	–	2·2
Birr Castle ...	41	31	25	–	–	3·6
Valentia Obsy. †	44	37	32	–	0·3	5·4
Roches Point	42	35	*	–	–	*

LONDON OBSERVATIONS

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except for rainfall which is 9h—18h.

	Height above M.S.L. in feet.	Weather Morning.	Weather Afternoon.	Weather Night.	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs.	Humidity 15h. G.M.T %	Humidity 9h. G.M.T %	Visibility 9h.
		24 hrs. ended 9h.								Yesterday.		To-day.	
Kew ...	18	cm.	cm.r.	cr.r.cr.	38	35	35	Tr	1	0·0	.	.	5
Croydon ...	217	cmir.f	ofirisf	fm.rsr.	37	33	33	Tr	1	0·0	.	.	4
Greenwich (Royal Observatory) ...	149	c	c	cr.s.id.	37	35	31	–	0·3	0·0	92	90	5
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*	*	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	38	36	35	0·7		*	90	92	*
Regents Pk. (Botanic Gardens)‡ ...	168	*	*	*	37	34	33	Tr	1	0·0	91	100	*
Camden Square ...	110	c	o r s.	*	37	35	30	0·5	1	*	*	94	*
Kensington ...	80	cp	c	*	37	36	34	0·1	1	0·0	At 18h. 92	91	*
Hampstead Observatory ...	450	o	os	or	36	33	27	0·4	3	0·0	*	98	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 27th

South Kensington. Max.	Time.	Min.	Time.
0·3	15-17h 26th	<0·3	2-4h 27th

Kew Observatory. Max.	Time.	Min.	Time.
Defective Record.			

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 26th January Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 27th January Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
Paris ...	990·3	ESE	4	rr	37	1002·6	NE	2	F	32	39	28	4	–
Brussels ...	995·7	E	2	b		1001·5	NE	2	bc	34	41	32	–	10
Berlin ...	1000·8	ENE	3	rs	36	1000·9	ENE	4	rs	36	36	34	Tr	1
Zürich ...	999·9	SE	2	c	34	999·0	NNE	1	0	32	36	28	0·2	–
Rome ...	1002·2	NW	7	c	64						*	*	3	

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	<1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	> 75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

		Objects not visible at
0	Dense fog	55 yards.
1	Thick fog	220 ,,
2	Fog	550 ,,
3	Moderate fog	1,100 ,,
4	Mist or haze	1½ miles.
5	Poor visibility	2½ ,,
6	Moderate ,,	6½ ,,
7	Good ,,	12½ ,,
8	Very good ,,	31 ,,
9	Excellent ,,	beyond 31 m.

COLUMN 30.—Code for State of Sea.

0	Calm.	5	Very rough.
1	Smooth.	6	High.
2	Slight.	7	Very high.
3	Moderate.	8	Precipitous.
4	Rough.	9	Confused.

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY, LONDON, W.C.2.

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

† 7 hr. observations are from Valencia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday, 28th January, 1939.
No. 28191.

OBSERVATIONS at 13h. G.M.T. 27th January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Amount Low 0–10 (12)	Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1009·0	+6	NNE	3	z	40	65	6	5	–	–	9	9	4000
	Croydon	1008·5	+10	NNE	4	r$_o$	39	75	4	5	3	–	4-6	9+	1500
	S. Farnborough	1009·2	+8	NNE	3	c	39	75	6	5	3	–	1	9+	5700
	Boscombe Down	1009·8	+10	N	4	bc	36	85	7	5	7	–	4-6	4-6	4000
	Calshot (Sthmtn.)	1008·9	+10	N	3	c	40	75	6	5	7	–	4-6	9	1500
	Lympne	1008·1	+12	N'E	2	r$_o$	39	92	6	5	–	–	10	10	1500
	Manston	1007·2	+14	NE	3	r$_o$	39	92	6	6	7	–	4-6	9+	1500
2	Shoeburyness	1008·2	+14	N'E	3	c/r	39	85	7	5	7	–	4-6	9+	2500
	Felixstowe	1008·2	+10	NNE	4	c	39	75	7	5	–	–	9+	10	2500
	Gorleston	1008·6	+6	NNE	5	bc	39	75	7	8	3	–	2-3	4-6	4000
	Mildenhall	1009·2	+6	NE'N	4	bc	42	55	8	1	–	1	2-3	2-3	4000
	Cranwell	1011·0	+6	N	4	z$_o$	39	85	6	5	7	–	7-8	10	4000
3	Birmingham	1011·6	+6	N	3	m	37	75	4	–	–	8	0	7-8	–
	Upper Heyford	1010·6	+10	N	3	c	37	85	6	5	3	1	4-6	7-8	1500
4	Ross-on-Wye	1011·3	+6	N	3	z$_o$	39	75	6	5	1	–	7-8	9+	2500
5	Hartland Point	1010·6	+10	NE	4	c	40	75	8	7	6	–	4-6	7-8	1500
	Bristol	1011·3	+12	NNE	4	z$_o$	38	75	6	5	7	–	4-6	7-8	4000
	Portland Bill	1008·4	+12	NE	4	c	39	92	7	5	–	–	10	10	2500
	Plymouth	1010·2	+2	NE'N	2	c	41	65	8	7	4	–	9+	9+	2500
	The Lizard	1009·8	+8	NE'E	4	c	41	85	7	8	6	–	4-6	7-8	2500
	Scilly (St. Mary's)	1010·5	+8	NE'E	4	c	42	75	8	8	4	–	7-8	9+	1500
	Guernsey	1007·4	+6	NNE	1	c	42	85	7	8	–	–	10	10	2500
6	Pembroke	1012·9	+10	E	4	bcq	42	65	8	5	6	1	4-6	4-6	2500
7	Holyhead	1013·6	+6	NE	5	c/pr	43	75	8	8	3	5	4-6	7-8	2500
	Chester (Sealand)	1013·5	+4	NNW	2	m	39	85	4	5	2	–	7-8	10	4000
9	Manchester	1013·1	+6	NNE	2	z$_o$	39	85	5	8	3	3	2-3	7-8	2500
10	Spurn Head	1010·8	+4	NE'N	5	c/pr	40	85	7	9	1	8	2-3	7-8	450
	Catterick	1013·4	+6	N'E	3	z$_o$	37	92	6	8	7	–	7-8	9+	800
	Tynemouth	1013·6	+6	E	3	c/phr	38	85	8	8	–	–	7-8	7-8	1500
11	St Abbs Head	1014·8	+4	N	6	cq	40	85	8	3	6	–	4-6	9	1500
	Leuchars	1016·1	0	N	2	c	39	85	8	8	3	–	2-3	9	2500
12	Renfrew (Abbots I.)	1017·3	+2	N'E	2	bc	42	75	9	4	4	5	4-6	4-6	4000
	Eskdalemuir	1015·4	+6	NNE	4	c	36	85	8	5	–	–	9	9	1500
	Point of Ayre	1015·2	+4	NE	4	c	42	75	8	5	–	–	7-8	7-8	2500
13A	Tiree	1019·6	0	N'E	2	bc	43	75	8	1	3	6	1	4-6	4000
13B	Stornoway	1020·3	0	NNW	4	c	39	75	8	5	1	–	4-6	10	2500
15	Dalwhinnie	1019·0	-2	N	3	c	34	85	7	5	–	–	9+	9+	2500
	Aberdeen	1016·1	-2	N'W	3	c	38	85	7	9	–	8	9	9	1500
	Wick	1017·7	0	NNE	5	c	41	75	8	5	7	8	4-6	9	1500
16	Lerwick	1017·3	+2	NNE	4	c	39	85	8	5	2	–	4-6	7-8	1500
17	Blacksod Point	1018·2	-2	ESE	4	bc	43	92	9	9	–	–	4-6	4-6	2500
18	Malin Head	1018·6	+2	NNE	4	bc	43	85	8	1	–	4	2-3	4-6	5700
	Aldergrove	1016·5	+4	NE'E	4	bc	43	65	9	2	–	–	4-6	4-6	2500
19	Birr Castle	1015·5	+4	NNW	1	bc	42	75	8	5	4	–	2-3	2-3	2500
20	Valentia Obsy. †	1016·3	+2	NE'E	4	bc	39	75	8	2	4	–	2-3	4-6	1500
	Roches Point	1014·5	+8	NE'E	3	bc	42	75	8	7	3	–	2-3	4-6	2500

OBSERVATIONS at 18h. G.M.T. 27th January — PAST 24 HOURS

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Amount Low 0–10 (26)	Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)	Weather 7h.–13h. 27th (37)	Weather 13h.–18h. 27th (38)	Weather 18h. 27th to 1h. 28th (39)	Weather 1h.–7h. 28th (40)
London (Kew)	1011·2	+14	N'E	2	z$_o$	38	75	6	–	–	1	0	2-3	–	1	*	cr$_o$r$_o$cm$_o$	cm$_o$bcm$_o$	bccpr$_o$m$_o$	cpr$_o$cm$_o$
Croydon	1010·9	+14	NE'N	2	m	37	75	4	5	–	5	2-3	9+	5700	1	*	r$_o$r$_o$mir$_o$m	ir$_o$fcm	cmbfcm$_o$	bcps$_o$r$_o$s$_o$
S. Farnborough	1011·3	+14	N	2	z$_o$	37	75	5	5	–	1	4-6	7-8	1500	2	*	cd$_o$r$_o$bcc	cbccm$_o$	cm$_o$mx	cbxcis$_o$
Boscombe Down	1011·6	+6	N'E	3	z$_o$	33	85	5	–	7	1	0	2-3	–	4	*	ps$_o$s$_o$s$_o$bc	bcm$_o$	bm$_o$bccb	bc
Calshot (Sthmtn.)	1011·2	+6	N	3	z$_o$	38	75	6	5	7	1	2-3	2-3	5700	1	2	cm$_o$	bcm$_o$cm$_o$	bwbxm$_o$	bxbcxm$_o$
Lympne	1010·8	+18	NNE	3	c	37	75	7	5	7	–	4-6	10	4000	1	§ 2	cir$_o$m$_o$	cm$_o$ir$_o$c	cm$_o$	cr$_o$r$_o$m$_o$
Manston	1009·8	+14	N'E	4	c	39	75	7	5	3	–	7-8	9+	2500	1	*	cir$_o$irm$_o$	cir$_o$phr$_o$	cir$_o$m$_o$	c
Shoeburyness	1010·9	+20	N'E	2	b	35	85	7	–	4	–	0	1	–	1	*	cir$_o$m$_o$	cb	bc	cbxc
Felixstowe	1010·9	+12	N	2	bc	37	85	7	5	–	–	2-3	2-3	4000	1	2	or$_o$r$_o$m$_o$	cbcb	bbc	bccpr$_o$
Gorleston	1010·6	+6	N'E	4	c	39	75	7	5	–	–	9+	9+	2500	0	3	ocbcq	bcc	cpr$_o$s$_o$c	cpK$_o$r$_o$c
Mildenhall	1011·3	+14	NNW	2	c/r	37	92	8	8	3	–	4-6	9	2500	1	*	cbc	bocir$_o$	cid$_o$cbc	cir$_o$cmr$_o$r
Cranwell	1012·2	+6	N'W	2	z$_o$	37	92	6	5	3	–	1	9+	2500	1	*	cpr$_o$c	cpr$_o$c	cm$_o$pr$_o$	cps$_o$
Birmingham	1013·0	+6	N	2	c	37	85	5	5	–	–	9+	9+	1500	1	*	cbcc	cm	c	c
Upper Heyford	1012·6	+10	N	2	z$_o$	35	92	5	5	3	–	9	9+	1500	4	*	bccbc	bcpsh$_o$c	cm$_o$	cm$_o$sh$_o$
Ross-on-Wye	1012·8	+8	N	2	z$_o$	38	85	5	5	–	–	10	10	2500	1	*	cbcc	cz$_o$	cm$_o$bmcm	cm$_o$cm
Hartland Point	1011·7	+6	ENE	5	c	40	85	8	8	–	–	9+	9+	1500	1	3	c	c	bc	bc
Bristol	1012·5	+14	NNE	2	m	36	85	4	5	7	–	4-6	7-8	2500	4	*	cm$_o$	cm$_o$m	cmm$_o$x	cm$_o$x
Portland Bill	1010·1	+12	NE	3	c	38	92	7	5	–	–	10	10	2500	1	4	c	c	b	bcc
Plymouth	1011·6	+10	N	1	z$_o$	38	75	5	5	–	1	2-3	4-6	2500	1	1	bz$_o$bcc	cbcz$_o$	bcbm$_o$	bm$_o$bx
The Lizard	1010·6	+4	NE'E	4	c	40	85	8	8	2	–	7-8	9+	2500	1	1	bc	bcc	cbc	bcc
Scilly (St. Mary's)	1010·6	+2	ENE	4	c	42	65	8	8	7	–	7-8	10	1500	1	3	cp$_o$cbc	c	cbc	bcbl
Guernsey	1009·0	+8	NNE	2	c	42	85	6	8	–	–	10	10	2500	1	3	cpr$_o$	c	cpr$_o$	cir$_o$
Pembroke	1013·2	+2	E'S	3	bc	39	75	8	2	4	1	2-3	4-6	1500	1	2	bcq	bc	bcm	ocbcm
Holyhead	1014·5	+8	NE	4	bc	41	85	7	2	4	–	2-3	4-6	2500	1	2	bcpr$_o$c	c/bc	cwbc	bcc
Chester (Sealand)	1014·4	+12	NNW	2	cf	34	92	3	5	7	–	4-6	9	4000	1	*	cr$_o$m$_o$dmf	cmm$_o$f	cbcfm	cmbbcfx
Manchester	1014·1	+10	NNE	2	bc/pr	36	85	4	8	3	–	4-6	4-6	4000	1	*	ir$_o$mpr$_o$m	cm$_o$bcmpr	bcmcmpr	cm$_o$x
Spurn Head	1011·8	+10	NE	3	c	40	85	8	3	1	–	2-3	10	450	1	2	cpr	cpr$_o$	c	c
Catterick	1014·5	+10	NNW	2	z$_o$	35	92	6	9	3	–	4-6	4-6	1500	1	*	cm$_o$phr	phrcm$_o$	m$_o$pr$_o$PH	cm$_o$PH
Tynemouth	1014·0	+6	N	4	c/pr	39	85	7	9	–	–	7-8	7-8	1500	1	2	cbcphc	cbccp	coirs	coc
St Abbs Head	1016·0	0	NW	3	c/phr	38	92	9	3	6	–	4-6	9+	2500	1	3	cq	PHRc	prc	pr$_o$c
Leuchars	1016·5	+6	NNW	2	c	37	85	7	8	7	–	7-8	9+	2500	4	*	bcxbc	bccir$_o$	cbcx	bcxcx
Renfrew (Abbots I.)	1017·5	+2	N'E	1	c	38	85	8	5	–	–	9	9	5700	1	*	bccbc	bcc	c	cm$_o$
Eskdalemuir	1016·1	+6	N'E	3	prs	35	92	7	6	–	–	9	9	800	4	*	bcrs$_o$rs$_o$	bcbbc	cm$_o$	cm$_o$
Point of Ayre	1015·8	+4	ENE	4	c	40	75	8	5	–	–	9	9	2500	0	3	c	cbc	c	bcb
Tiree	1017·5	0	N'E	4	bc	41	85	8	5	3	–	2-3	4-6	2500	0	3	bc	bc	bc	bcb
Stornoway	1019·8	-2	NNW	3	c	37	85	7	5	1	–	4-6	10	2500	1	1	c	cpr	cpr$_o$	cpr
Dalwhinnie	*	+2	–	0	c	32	85	7	5	–	–	10	10	2500	7	*	cis	c	*	c
Aberdeen	1016·7	+6	NW	2	c/r	36	92	6	8	–	–	9+	9+	1500	1	1	bcprc	cprc	cm$_o$	cm$_o$
Wick	1018·0	+2	NNW	3	c	38	85	8	5	7	2	4-6	9+	1500	1	2	bccq	c	c	cbc
Lerwick	1017·2	+2	N	4	c	38	85	8	5	7	–	4-6	7-8	1500	1	*	cirs	c	cbc	bcc
Blacksod Point	1018·2	0	ESE	1	bc	41	92	8	2	–	–	2-3	2-3	4000	0	2	bc	bc	bc	bc
Malin Head	1018·2	0	N'E	3	bc	42	75	8	7	5	–	2-3	4-6	5700	0	2	bc	bc	bcvbcc	c
Aldergrove	1016·9	+6	NE	2	bc	36	85	9	2	3	–	1	2-3	2500	1	*	bcbbc	bc	bccphr$_o$c	cph$_o$bcm
Birr Castle	1015·9	+4	ENE	1	c	38	85	8	5	7	–	4-6	7-8	2500	1	*	cbc	bcc	cbcb	bbccx
Valentia Obsy. †	1015·8	+6	NE'E	4	bc	40	75	8	2	–	–	4-6	4-6	2500	1	2	cbc	bcbbc	bcbbx	bxb
Roches Point	1014·7	+4	NNE	3	c	41	85	8	5	–	–	7-8	7-8	2500	1	2	bc	bcc	cbc	bcc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s$_o$, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s$_o$/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r$_o$, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
⊕, Solar halo. ⊕ lunar halo. Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus —bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:— Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As: Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. „ wet.
2 .. „ flooded.
3 .. „ frozen hard and dry.
4 .. „ partly covered with snow or hail.
5 .. „ covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. „ covered with snow, less than 6 ins., deep but ground not frozen.
8 .. „ covered with snow, less than 6 ins., but ground frozen.
9 .. „ covered with snow greater than 6 ins. deep

NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

§ Sea disturbance reported from Dungeness

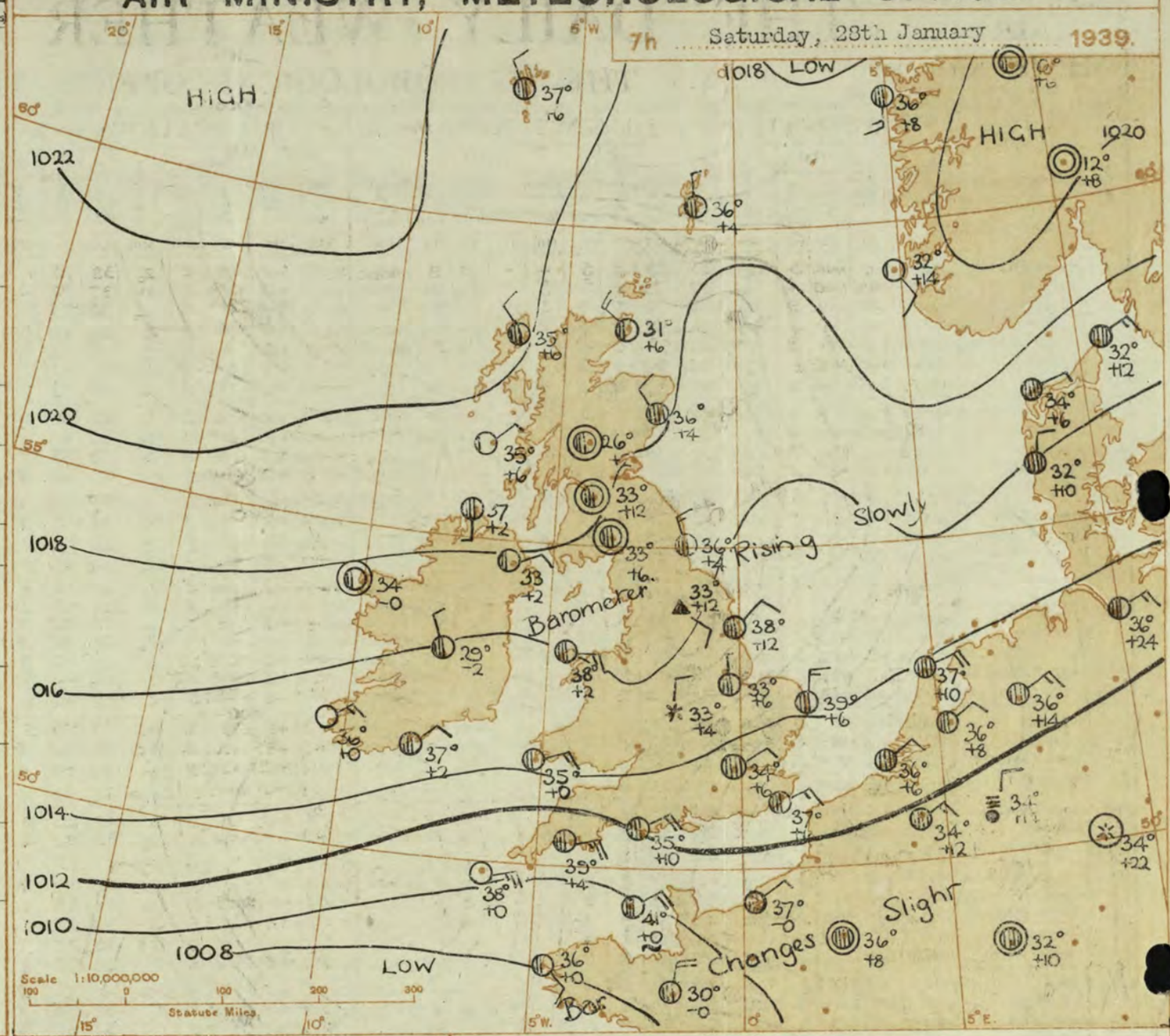
REPORTS from HEALTH RESORTS for 27th January 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F.) Min. 9h. 26th to 9h. 27th	Temperature. (°F.) Max. 9h.—17h. 27th	Rainfall. (mm.) Night. 17h. 26th to 9h. 27th	Rainfall. (mm.) Day. 9h.—17h. 27th	Sunshine (hrs) Sunrise to Sunset 27th
1	Tunbridge W.	oro	o	32	37	1	0.5	0.0
	Bournemouth	c	bcbb	36	41	–	–	2.0
	Ventnor ...	ou	opcz	34	40	–	Trace	0.7
	Southsea ...	oc	c	35	41	–	–	0.4
	Bognor Regis	oir	o	35	41	Trace	Trace	0.0
	Littlehampton	orc	cbcc	34	41	0.1	0.3	0.5
	Worthing ...	orc	c	35	40	Trace	0.5	0.0
	Brighton ...	dc	c	35	40	0.2	1	0.0
	Eastbourne† ...	orc	ocrc	33	40	0.2	0.2	0.4
	Hastings† ...	orcc	orcc	33	40	0.5	2	0.4
	Folkestone ...	morcc	orsc	35	41	2	5	0.4
	Dover ...	orc	orrsc	36	42	2	5	0.1
	Deal	rrcc	hrro	35	47	2	2	0.6
	Ramsgate ...	opc	po	35	42	4	2	0.6
	Margate ...	cr	c	37	41	4	2	0.1
2	Southend ...	omo	obm	34	39	4	–	0.0
	Clacton-on-Sea	rdorc	cbc	34	40	7	1	0.0
	Dovercourt ...	roc	bc	35	40	8	Trace	0.2
	Lowestoft ...	cc bc	bcc	34	40	4	–	1.8
	Skegness ...	ocbc	cbcon	36	41	2	0.5	0.9
	Mablethorpe...	orc	bcc	36	41	0.3	Trace	0.0
	Cleethorpes ...	chrc	cbcc	39	41	–	0.3	0.0
3	Leamington S.	c	co	34	40	0.5	–	0.2
4	Cheltenham†	mco	ocm	34	39	0.3	–	0.0
5	Bath	cb	bbcc	35	40	1	–	3.5
	Weymouth ...	c	cbc	36	41	–	–	1.4
	Jersey ...	pcbc	bccr	38	45	1	1	4.0
	Torquay ...	czc	cbcz	37	41	–	–	0.3
	Falmouth	b	b	37	43	–	–	3.3
	Penzance ...	b	bcc	39	46	–	–	4.7
	St. Ives ...							
	Bude... ...	bc	bc	37	42	0.2	–	2.3
	Ilfracombe ...	cbcc	bccbc	39	43	–	–	1.5
6	Aberystwyth	zbc	bcc	37	43	–	–	5.4
7	Llandudno ...	c	c	40	42	–	–	0.0
	Colwyn Bay...	cco	oc	39	41	–	–	0.0
	Rhyl	cr	rc	39	41	–	0.2	0.0
8	Wallasey ...	phc	cprc	35	39	Trace	Trace	0.0
	Southport ...	cprs	prsbc	33	39	Trace	0.3	0.1
	Blackpool ...	bccm	cbcc	35	41	–	–	1.4
	Morecambe .	bcb	bbc	35	42	–	–	4.0
9	Ilkley... ...	prs	cbprs	34	39	1	1	1.0
	Harrogate ...	cprs	cp	35	38	1	0.3	0.3
10	Berwick-on-T.	crs	irhc	37	41	1	3	0.3
11	Dunbar ...	cprh	cprs	37	41	3	0.5	0.9
12	Troon... ...	bcbc	bcbcc	34	42	–	–	5.5
	Douglas ...	bcx	bc	36	41	–	–	5.1

† Max. Temp. for period 21h. yesterday to 17h. to-day Min. Temp. 21h.–9h.

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h Saturday, 28th January 1939.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 28th January, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Wind northeast light or moderate. Mainly cloudy, slight drizzle or sleet locally. Cold with slight frost at night.
5 S.W. England 6 South Wales ...	Wind northeast. Fresh or strong. Mainly cloudy, occasional rain. Rather cold.
7 North Wales ... 8 N.W. England	Wind north or northeast, light or moderate. Fair. Cold with frost at night.
9 N. Midlands ... 10 N.E. England	As 1 - 4.
11 S.E. Scotland 12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland 17 N. W. Ireland 18 N. E. Ireland 19 S. E. Ireland 20 S. W. Ireland	As 6 - 8.

GENERAL INFERENCE.

Pressure is high to the north and low to the south of the British Isles. Winds will remain northeasterly and weather cold. It will be fair in the North and West, but cloudy in the East of England and the Midlands with slight sleet or drizzle at times.

FURTHER OUTLOOK.

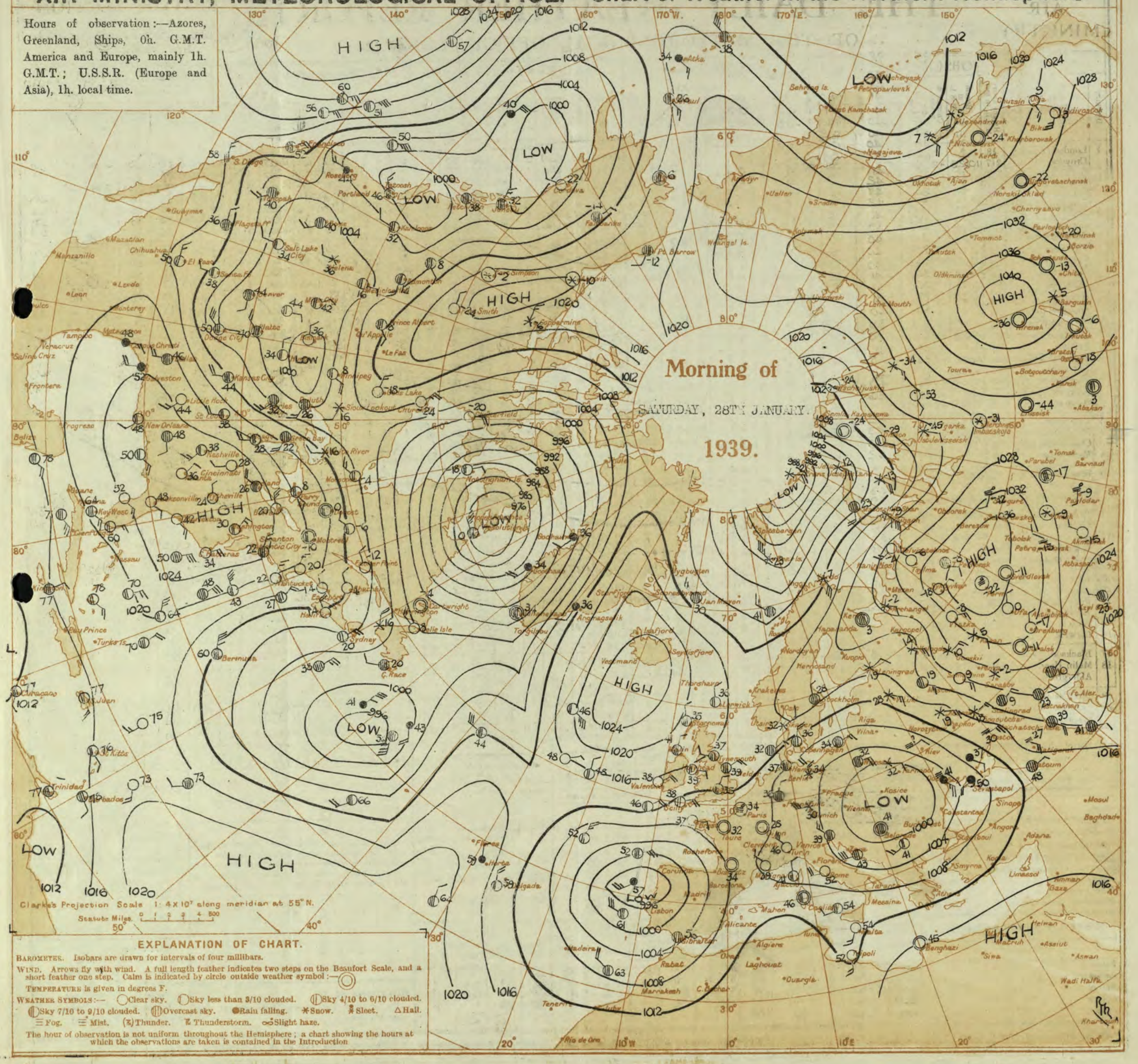
Little change.

Forecasts issued at 1030 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S.
Director.

H.M. Stationery Office Press, Kingsway, W.C.2. G.738/36E3. Wt. 8095.0.3769. Gp.248. 29/40. 1/39

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS :— Clear sky. Sky less than 3/10 clouded. Sky 4/10 to 6/10 clouded. Sky 7/10 to 9/10 clouded. Overcast sky. Rain falling. Snow. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday, 28th January, 1939.
No. 28191.

OBSERVATIONS at 1 hr. G.M.T. 28th January

District	Stations	Height above M.S.L. in feet	Barom at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0-12 (4)	Weather (5)	Temp. °F (6)	Humid. % (7)	Visibility 0-9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0-10 (12)	Cloud Amount Total 0-10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1012.5	+2	NNE	2	z_0	35	92	6	5	–	–	9+	9+	4000
	S. Farnborough	228	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1012.2	+2	N'E	3	z_0	36	85	6	5	–	–	9+	9+	4000
	Manston	154	1011.3	+6	N'E	4	o/r	36	92	6	5	–	–	10	10	1500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1012.3	+6	NE	3	c	38	85	7	8	2	–	4-6	10	2500
	Mildenhall	19	1012.7	+4	N	2	bc	35	92	7	5	–	–	4-6	4-6	4000
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	293	1012.6	+2	NE	4	b	38	92	7	2	–	–	1	1	2500
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32	1011.6	+4	ENE	3	b	35	85	7	–	–	–	0	0	–
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard	240	1010.5	–4	E'N	4	bc	40	92	8	8	–	–	4-6	4-6	2500
	Scilly (St. Mary's)	163	1011.1	–2	E'N	4	bc	38	65	7	8	–	–	2-3	2-3	1500
	Guernsey	175	1010.1	+2	ENE	2	ir_0	41	92	6	8	–	–	10	10	2500
6	Pembroke	142	1014.0	+4	E	4	bc	38	85	6	5	–	–	4-6	4-6	1500
7	Holyhead	26	1015.3	0	E	2	bc	39	75	8	8	4	–	4-6	4-6	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1013.7	+6	NE'E	3	c	39	75	8	5	–	–	7-8	7-8	2500
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	108	1015.8	+2	W	2	c/rs	37	92	6	8	–	–	7-8	7-8	1500
11	St Abbs Head	280	1016.8	0	NW	1	c	37	92	8	3	6	–	4-6	7-8	1500
	Leuchars	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotsinch)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1016.1	0	E'N	3	c	39	85	7	5	–	–	9+	9+	1500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1019.6	–2	NNW	2	c	35	85	7	5	–	–	7-8	7-8	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1018.3	+2	NW	2	c	36	92	8	8	7	–	4-6	7-8	1500
16	Lerwick	156	1017.6	0	N	2	bc	36	85	8	5	–	–	4-6	4-6	1500
17	Blacksod Point	18	1017.7	0	NE	2	bc	39	92	8	4	–	–	2-3	2-3	2500
18	Malin Head	34	1017.5	–6	N'E	2	c	41	75	7	4	8	–	2-3	7-8	4000
	Aldergrove	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1015.6	–2	NE	4	b	38	97	8	–	–	–	0	0	–
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 28th January — PAST 24 HOURS.

Stations	Barom at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0-12 (18)	Weather (19)	Temp. °F (20)	Humid. % (21)	Visibility 0-9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0-10 (26)	Cloud Amount Total 0-10 (27)	Height of Base (feet) (28)	State of Ground 0-9 (29)	Sea 0-9 (30)	Temperature Max. Day 7h-18h °F. (31)	Temperature Min. Night 18h-7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h-18h mm. (34)	Rainfall Night 18h-7h mm. (35)	Sunshine 27th Hrs. (36)
London (Kew)	1013.6	+4	NE'N	2	z.	36	85	6	5	–	–	10	10	1500	1	*	41	35	25	0.3	0.1	1.5
Croydon	1013.2	+6	ENE	1	m/rs	34	97	4	–	2	–	10	10	220	1	*	39	31	27	1	0.4	0.1
S. Farnborough	1012.9	+4	NE'N	3	id_0	34	97	6	5	–	–	9+	9+	4000	4	*	40	31	25	0.4	0.1	1.6
Boscombe Down	1013.6	+4	NE'N	3	bc	33	92	7	5	–	–	4-6	4-6	2500	2	*	37	28	26	Tr	–	3.1
Calshot (Sthmtn.)	1013.1	0	N	3	z_0	34	92	6	5	5	–	2-3	4-6	4000	1	1	41	31	28	–	–	0.4
Lympne	1013.2	+6	ENE	3	c	37	75	7	5	–	–	9	9	4000	1	§2	39	34	33	1	0.2	0.5
Manston	1013.1	+12	ENE	3	c	39	65	7	5	–	–	10	10	4000	1	*	41	36	33	1	0.4	0.4
Shoeburyness	1013.2	+6	NE	2	c	39	85	8	5	–	–	10	10	2500	1	*	40	33	26	1	–	0.0
Felixstowe	1013.6	+12	NE'N	3	ir_0	37	92	7	5	2	–	7-8	10	5700	1	2	40	33	29	1	Tr	0.1
Gorleston	1014.6	+6	NNE	3	c	39	75	7	8	–	–	7-8	7-8	2500	1	3	41	37	35	–	0.3	2.4
Mildenhall	1014.4	+10	NE'N	2	c/r	35	92	7	5	2	–	9+	10	4000	1	*	42	34	31	Tr	0.1	4.9
Cranwell	1015.3	+6	N	1	z_0	33	92	6	8	–	–	9	9	4000	1	*	40	33	30	0.1	Tr	0.0
Birmingham	1014.8	+4	NNE	2	sh	33	97	4	6	–	–	10	10	800	6	*	38	33	29	–	Tr	0.0
Upper Heyford	1014.4	+6	NE	3	sh	33	92	5	5	–	–	10	10	800	4	*	37	32	28	Tr	0.2	*
Ross-on-Wye	1014.4	0	NE'E	2	z_0	34	85	5	5	–	–	10	10	1500	4	*	39	33	28	–	–	1.0
Hartland Point	1012.1	–4	ENE	4	bc	37	85	7	5	–	–	2-3	2-3	2500	1	3	42	36	34	–	–	2.8
Bristol	1013.8	0	–	0	z_0	33	97	3	5	–	–	10	10	800	4	*	39	31	26	–	–	1.5
Portland Bill	1010.9	+10	ENE	4	c	35	92	7	5	–	–	7-8	7-8	2500	1	3	39	34	*	–	–	*
Plymouth	1012.1	0	NNE	2	b	36	85	7	8	–	–	1	1	2500	3	1	41	34	30	–	–	3.2
The Lizard	1010.1	+4	E'N	5	c	39	92	7	8	2	–	7-8	9+	1500	1	3	42	36	*	–	–	3.1
Scilly (St. Mary's)	1010.3	0	E'N	5	b	38	85	6	–	–	–	0	0	–	1	3	45	37	*	Tr	–	2.2
Guernsey	1009.8	0	NE	4	c	41	85	6	8	–	–	9+	9+	2500	1	4	43	39	37	Tr	0.4	0.1
Pembroke	1014.3	0	E'N	3	bc	35	85	5	1	3	–	2-3	2-3	2500	1	2	42	35	*	–	–	5.9
Holyhead	1015.8	+2	E	3	c	38	85	8	5	4	–	2-3	7-8	4000	1	1	43	36	32	Tr	–	1.7
Chester (Sealand)	1016.2	+4	–	0	bcf	30	92	3	–	3	–	0	2-3	–	3	*	40	29	27	0.5	–	0.6
Manchester	1016.3	+8	NE'N	2	z_0	32	92	6	–	3	–	0	9	–	3	*	40	31	22	0.6	Tr	0.0
Spurn Head	1015.1	+12	NE'N	2	c	38	85	8	5	–	–	7-8	7-8	2500	0	1	41	36	*	0.1	–	0.0
Catterick	1017.3	+12	SE'E	2	PHR	33	97	6	6	7	–	9+	10	800	4	*	40	32	27	1	3	1.0
Tynemouth	1016.9	+4	NNW	3	c	36	92	6	8	–	–	7-8	7-8	1500	1	2	42	34	31	2	4	1.8
St Abbs Head	1017.5	+6	N	2	c	39	85	8	3	6	–	2-3	9+	1500	1	3	41	36	*	2	1	*
Leuchars	1017.2	+6	–	0	c	35	92	9	5	3	–	4-6	9+	2500	4	*	40	34	30	Tr	–	3.2
Renfrew (Abbotsinch)	1019.7	+12	–	0	z_0	33	97	5	5	3	–	4-6	9	2500	1	*	43	31	27	–	–	2.8
Eskdalemuir	1017.8	+6	–	0	c	33	92	6	5	–	–	7-8	7-8	1500	1	*	37	33	31	1	–	1.9
Point of Ayre	1016.8	+4	E'N	3	b	38	85	8	4	–	–	1	1	4000	0	2	42	38		–	–	3.1
Tiree	1018.2	+6	NE	1	b	35	92	8	–	3	–	0	1	–	0	1	43	35	31	–	–	5.6
Stornoway	1020.1	+6	NW	2	c	35	92	7	5	–	–	9	9	2500	1	1	40	33	*	1	1	0.3
Dalwhinnie	*	+2	–	0	c	26	92	7	4	6	–	4-6	7-8	2500	8	*	35	25	23	2	–	0.0
Aberdeen	1016.6	+4	NW	2	c	36	92	6	5	–	–	10	10	2500	1	2	39	34	32	2	–	0.4
Wick	1019.3	+6	WNW	3	bc	31	92	8	5	7	–	2-3	4-6	1500	1	2	42	31	*	–	–	*
Lerwick	1018.6	+4	N	1	c	36	85	8	5	3	–	4-6	7-8	1500	5	*	41	34	*	1	–	0.5
Blacksod Point	1017.4	0	–	0	bc	34	92	8	4	–	–	2-3	2-3	2500	3	2	44	32	*	–	–	*
Malin Head	1018.1	+2	S	1	c	37	85	7	8	2	–	4-6	9	4000	0	2	43	35	*	–	–	4.2
Aldergrove	1017.3	+2	E'N	2	z_0	33	97	6	5	–	–	4-6	4-6	2500	1	*	43	31	21	–	0.3	6.4
Birr Castle	1015.9	–2	NNW	1	c	29	97	8	5	–	–	7-8	7-8	2500	1	*	43	28	21	–	–	3.7
Valentia Obsy. †	1015.2	0	NE	3	b	36	85	7	–	–	–	0	0	–	1	2	42	34	25	–	Tr	2.7
Roches Point	1014.9	+2	NE	2	c	37	85	8	5	–	–	7-8	7-8	2500	1	2	43	35	*	–	–	*

LONDON OBSERVATIONS

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except for rainfall which is 9h—18h.

Station	Height above M.S.L. in feet	Weather Morning	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs.	Humidity 15h. G.M.T % (Yesterday)	Humidity 9h. G.M.T % (To-day)	Visibility 9h.
		24 hrs. ended 9h.											
Kew	18	$crscm_0$	cm_0bcm	bcpcscm	41	35	25	0.3	0.1	1.5	•	•	4
Croydon	217	r_0cmicm	ic_0fcm	$mbfpscs_0$	39	31	27	1	0.4	0.1	•	•	3
Greenwich (Royal Observatory)	149	r_0c	cbcb	$bcxscm_0$	39	34	28	Tr	1	0.1	65	87	5
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	0.5	•	•	•
Westminster (St James' Park)	27	•	•	•	41	36	30	0.4		0.3	76	85	•
Regents Pk. (Botanic Gardens)‡	168	•	•	•	40	34	27	–	0.5	1.9	73	81	•
Camden Square	110	c	bc	•	41	35	28	–	0.5	•	•	90	•
Kensington	80	cpbc	bcbz	•	41	35	28	0.1	0.2	0.9	84 (at 18h.)	85	•
Hampstead Observatory	450	or	bc	od	38	33	26	0.3	0.5	2.3	•	92	•

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 28th

South Kensington.

Max.	Time.	Min.	Time.
0.3	18-21h 27th	<0.3	2-5h 28th

Kew Observatory.

Max.	Time.	Min.	Time.
Record defective			

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 27th January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 28th January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris	1008.7	N	2	z.	36	1011.3	–	0	z_0	36	41	34	–	–
Brussels	1006.6	N'W	3	d_0d_0	36	1011.8	NE	3	z_0	34	36	34	0.4	1
Berlin	1002.8	NNE	3	o	36	1010.2	NE'N	3	ir_0	36	37	34	0.5	2
Zurich	1007.2	WNW	1	o	32	1012.7	SE	1	m	27	32	25	1	–
Rome	1001.4	WSW	8	bc	54						•	•	–	

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	<1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	> 75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

Objects not visible at
0 Dense fog 55 yards.
1 Thick fog 220 „
2 Fog 550 „
3 Moderate fog 1,100 „
4 Mist or haze 1½ miles.
5 Poor visibility 2½ „
6 Moderate „ 6¼ „
7 Good „ 12½ „
8 Very good „ 31 „
9 Excellent „ beyond 31m.

COLUMN 30.—Code for State of Sea.

0 Calm. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 Precipitous.
4 Rough. 9 Confused.

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY, LONDON, W.C.2. N. K. JOHNSON, M.Sc., A.R.C.S., Director.

† hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 29th January, 1939.

No. 28192

OBSERVATIONS at 13h. G.M.T. 28th January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0-12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Amount Low 0-10 (12)	Amount Total 0-10 (13)	Height of Base (feet) (14)
1	London (Kew)	1014.2	-2	NE'N	4	z$_o$	40	55	5	7	4	-	4-6	4-6	2500
	Croydon	1014.4	0	NE	3	z	39	75	5	2	4	-	2-3	7-8	4000
	S. Farnborough	1013.8	-8	NE'E	2	m	39	85	5	5	-	-	9	9	1500
	Boscombe Down	1014.7	+2	NE	2	z$_o$	36	97	6	5	7	-	7-8	9+	1500
	Calshot (Sthmtn.)	1013.9	+2	NNE	3	z$_o$	41	75	6	8	-	-	9+	9+	4000
	Lympne	1014.2	+2	E'N	2	c	41	65	8	8	3	2	7-8	9	2500
	Manston	1014.0	+2	NE'E	2	c	40	65	9	5	-	-	9+	9+	2500
2	Shoeburyness	1014.5	0	NNE	4	c	42	65	7	2	6	6	2-3	7-8	4000
	Felixstowe	1014.9	0	NE'E	4	psh	37	85	7	8	2	8	9	9+	1500
	Gorleston	1015.1	0	N'E	4	d/pr	39	85	7	8	-	-	7-8	10	7200
	Mildenhall	1015.7	-2	ENE	3	phr	39	75	7	7	7	-	4-6	9	2500
	Cranwell	1016.8	+2	NE	3	z$_o$	40	75	6	8	3	6	1	9	4000
3	Birmingham	1016.4	-2	NE	3	m	37	75	4	1	3	-	Tr	2-3	1500
	Upper Heyford	1015.7	-2	NE	2	b	37	85	6	1	-	6	Tr	1	2500
4	Ross-on-Wye	1015.4	0	NE	2	z$_o$	37	85	6	5	7	-	9	9+	2500
5	Hartland Point	1012.8	-4	NE	4	c	38	85	7	8	3	-	4-6	9+	1500
	Bristol	1014.9	+2	ENE	4	ir$_o$	37	85	6	5	7	-	4-6	9+	1500
	Portland Bill	1011.6	+6	NE	4	c	41	85	7	5	4	-	7-8	9	2500
	Plymouth	1011.9	+10	ENE	2	z$_o$	39	75	6	1	-	6	Tr	4-6	2500
	The Lizard	1010.7	-10	ENE	5	bc	41	85	7	8	6	-	4-6	4-6	2500
	Scilly (St Mary's)	1010.9	-4	NE'E	5	c	41	75	6	8	4	2	2-3	7-8	1500
	Guernsey	1009.6	-6	ENE	2	c	42	85	7	8	3	-	7-8	9+	2500
6	Pembroke	1013.8	-2	E	5	c	39	75	7	5	7	-	4-6	7-8	2500
7	Holyhead	1017.2	+2	ENE	3	b	40	85	7	7	3	-	1	1	4000
	Chester (Sealand)	1017.6	0	-	0	m	36	92	4	5	-	-	7-8	7-8	2500
8	Manchester	1017.6	+2	NE'N	2	m	39	75	4	2	-	-	4-6	4-6	5700
10	Spurn Head	1016.9	+4	ENE	3	bc	43	66	7	2	-	1	2-3	4-6	4000
	Catterick	1018.9	+2	NW'N	1	z$_o$	35	97	6	8	7	-	7-8	9+	1500
	Tynemouth	1018.6	+8	ENE	3	bc	40	75	8	2	3	-	4-6	4-6	2500
11	St. Abbs Head	1019.8	+6	NW	1	c	37	92	8	4	6	-	4-6	7-8	2500
	Leuchars	1020.0	+2	-	0	pr	40	85	7	8	3	1	7-8	9+	1500
12	Renfrew (Abbots I.)	1020.7	+2	NNE	1	z$_o$	39	85	6	5	3	-	4-6	7-8	2500
	Eskdalemuir	1019.5	+2	NNE	2	c/ps	36	85	8	5	7	-	2-3	7-8	1500
	Point of Ayre	1018.3	+4	ENE	4	bc	40	85	7	2	-	6	Tr	4-6	1500
13A	Tiree	1020.2	+10	ENE	1	b/	41	85	8	7	4	-	1	1	4000
13B	Stornoway	1021.3	+4	-	0	c	40	92	9	5	7	-	7-8	9	2500
15	Dalwhinnie	*	0	-	0	c	33	92	7	5	-	-	10	10	2500
	Aberdeen	1020.7	+4	NNW	2	c	40	85	7	5	3	-	9	9+	1500
	Wick	1020.9	+6	W	2	bc	38	85	8	5	7	1	2-3	4-6	1500
16	Lerwick	1021.0	+6	W	2	c	38	75	8	8	7	-	7-8	9+	1500
17	Blacksod Point	1018.8	+10	NE	3	c	40	92	9	-	5	-	0	7-8	-
18	Malin Head	1019.7	+4	SE'E	1	c	43	75	8	2	9	-	4-6	9	5700
	Aldergrove	1018.8	+6	E	2	bc	42	75	7	2	3	-	2-3	2-3	2500
19	Birr Castle	1017.3	+4	N	1	bc	37	85	7	1	7	-	2-3	4-6	2500
20	Valentia Obsy. †	1016.2	0	ENE	3	bc	41	75	8	1	3	-	1	4-6	2500
	Roches Point	1015.9	+10	ENE	3	c	39	85	8	8	1	-	4-6	7-8	2500

OBSERVATIONS at 18h. G.M.T. 28th January

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0-12 (18)	Weather (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Amount Low 0-10 (26)	Amount Total 0-10 (27)	Height of Base (feet) (28)
1	London (Kew)	1014.5	+2	NNE	3	z$_o$	37	85	6	5	-	-	7-8	7-8	2500
	Croydon	1014.3	+2	ENE	3	z$_o$	37	85	5	5	-	-	9+	9+	4000
	S. Farnborough	1014.2	+4	NE	2	z$_o$	35	85	5	5	3	-	Tr	9	1500
	Boscombe Down	1014.4	+6	NE'N	3	z$_o$	33	85	6	5	-	8	2-3	4-6	2500
	Calshot (Sthmtn.)	1013.7	+2	NNE	3	m	37	75	4	5	5	5	7-8	9	2500
	Lympne	1014.7	+4	ENE	3	bc	36	75	7	5	-	-	2-3	2-3	1500
	Manston	1014.3	+6	ENE	3	bc	38	75	7	8	-	-	4-6	4-6	1500
2	Shoeburyness	1014.4	0	ENE	3	d/pr	40	85	7	9	-	-	9+	9+	1500
	Felixstowe	1014.9	+2	NE	4	o/d	40	75	6	5	-	-	10	10	1500
	Gorleston	1016.0	+6	ENE	5	c/pr	40	85	6	6	-	-	10	10	1500
	Mildenhall	1015.9	+6	ENE	4	r$_o$r$_o$	37	92	7	5	2	-	7-8	10	2500
	Cranwell	1017.2	+6	NE	3	c/pr	36	85	7	5	-	-	7-8	10	2500
3	Birmingham	1016.9	+2	NNE	3	c	36	75	6	5	3	-	7-8	9+	2500
	Upper Heyford	1015.8	+2	NNE	3	c	36	85	7	5	-	-	10	10	1500
4	Ross-on-Wye	1015.5	+4	NE	2	z$_o$	36	75	6	5	7	-	2-3	4-6	2500
5	Hartland Point	1012.6	+4	NE	5	bc	39	75	7	8	6	-	4-6	4-6	1500
	Bristol	1015.0	+2	NE	3	z$_o$	36	85	5	5	7	-	7-8	7-8	2500
	Portland Bill	1011.3	-6	NE	4	bc	37	85	7	4	-	-	4-6	4-6	2500
	Plymouth	1011.7	+4	ENE	4	z$_o$	39	76	6	5	-	9	4-6	4-6	2500
	The Lizard	1009.2	-10	E	6	d/pr	41	97	7	8	2	-	7-8	10	2500
	Scilly (St Mary's)	1010.3	0	ENE	5	bc	39	75	6	2	5	-	2-3	2-3	1500
	Guernsey	1009.3	0	ENE	4	c	42	75	7	8	-	-	10	10	2500
6	Pembroke	1015.2	+4	E	4	c	38	75	6	5	2	-	7-8	10	1500
7	Holyhead	1017.6	+8	ENE	3	bc	39	85	7	2	-	-	2-3	2-3	4000
	Chester (Sealand)	1018.1	+8	NE'N	2	m	37	85	4	5	3	-	4-6	7-8	2500
8	Manchester	1018.3	+8	NE	3	m	35	85	4	-	-	-	0	0	-
10	Spurn Head	1017.8	+6	E	5	ir$_o$	39	85	7	5	2	-	4-6	10	1500
	Catterick	1020.0	+10	NNW	1	z$_o$	32	97	5	4	-	-	2-3	2-3	2500
	Tynemouth	1020.3	+10	ENE	3	bc	40	75	8	2	-	-	4-6	4-6	2500
11	St. Abbs Head	1021.0	+12	NW	1	c	37	92	8	8	6	-	7-8	10	2500
	Leuchars	1021.6	+14	NNE	1	d/pr	37	92	7	8	7	-	4-6	9+	800
12	Renfrew (Abbots I.)	1021.6	+10	NE	2	z$_o$	39	85	5	5	3	-	2-3	7-8	4000
	Eskdalemuir	1021.0	+10	NE'E	3	c	33	85	6	5	7	-	9	10	800
	Point of Ayre	1019.4	+10	E'S	4	bc	39	75	7	4	4	-	1	2-3	1500
13A	Tiree	1020.8	+4	NE'E	1	b	35	92	9	1	-	-	Tr	Tr	4000
13B	Stornoway	1021.8	+2	WNW	1	c	38	92	8	5	7	-	7-8	9	2500
15	Dalwhinnie	*	+6	-	0	c	30	85	7	5	-	-	10	10	1500
	Aberdeen	1022.5	+4	NW'N	1	c/r	36	97	6	8	-	-	9	9	1500
	Wick	1022.4	+10	WNW	2	bc	34	92	8	5	-	-	2-3	2-3	1500
16	Lerwick	1022.9	+10	WNW	1	c	38	92	8	8	7	-	4-6	10	1500
17	Blacksod Point	1019.7	+8	NE	3	b	40	85	9	-	-	-	0	0	-
18	Malin Head	1020.3	+6	E'S	2	bc	42	75	7	4	4	-	1	2-3	1500
	Aldergrove	1019.4	+10	E'N	2	z$_o$	36	85	6	2	-	1	2-3	2-3	2500
19	Birr Castle	1017.8	+4	NNE	1	c	35	92	8	5	7	-	4-6	7-8	2500
20	Valentia Obsy. †	1016.4	+6	ENE	3	b	38	75	8	1	-	-	Tr	Tr	2500
	Roches Point	1016.0	+2	E'N	3	c/pr	37	92	8	3	-	-	7-8	7-8	1500

PAST 24 HOURS.

District	Stations	State of Ground 0-9 (29)	Sea 0-9 (30)	Weather 7h.—13h. 28th (37)	Weather 13h.—18h. 28th (38)	Weather 18h. 28th to 1h. 29th (39)	Weather 1h.—7h. 29th (40)
1	London (Kew)	1	*	cm$_o$cmcz$_o$y	bcyz$_o$bcm$_o$	bccr$_o$m$_o$	cpr$_o$cm$_o$
	Croydon	1	*	cfcm$_o$	bcmcm$_o$	cir$_o$id$_o$m$_o$	cid$_o$m$_o$
	S. Farnborough	2	*	cid$_o$s$_o$m$_o$	bcb,cm$_o$	cm$_o$	cid$_o$m$_o$
	Boscombe Down	4	*	bcps$_o$cm$_o$	cm$_o$bcm$_o$	bcm$_o$cm$_o$	c
	Calshot (Sthmtn.)	1	2	cir$_o$cm$_o$	bm$_o$cm	cmcf	cm$_o$
	Lympne	1	§3	cbccbc	cbcc	bccm$_o$	cz$_o$
	Manston	1	*	c	cbccpr$_o$	cz$_o$	cm$_o$cz$_o$
2	Shoeburyness	1	*	crs$_o$m$_o$bc	bccpc	cp$_o$c	c
	Felixstowe	1	2	ir$_o$bcctsh	cid$_o$ir$_o$m$_o$	cm$_o$c	c
	Gorleston	1	3	bccpr$_o$	cphr$_o$pr	cpr$_o$c	cq
	Mildenhall	1	*	scm$_o$bcc	phrid$_o$cd$_o$d$_o$	cir$_o$c	c
	Cranwell	1	*	cm$_o$psh	bccpr$_o$	cr$_o$c	c
3	Birmingham	6	*	cps$_o$bc	bcmc	c	c
	Upper Heyford	4	*	cm$_o$s$_o$h	bcis$_o$c	c	cd$_o$m$_o$
4	Ross-on-Wye	1	*	ps$_o$prs$_o$cm$_o$	cbcm$_o$	cbcm$_o$c	cd$_o$c
5	Hartland Point	1	3	bcc	cir$_o$	bcc	c
	Bristol	4	*	cmm$_o$r$_o$	cr$_o$mbc	cbccm$_o$	cir$_o$q
	Portland Bill	1	3	c	cbc	bcc	c
	Plymouth	1	1	bxbcm$_o$	bccpr$_o$bc	bbcz$_o$Ⓘ	bcod$_o$z$_o$
	The Lizard	1	3	bc	bccpr	cq	cpr
	Scilly (St Mary's)	1	3	bbcc	cbc	bcc	PRc
	Guernsey	1	3	cphr	c	c	cq
6	Pembroke	1	2	bcc	cir$_o$m	bbc	bcc
7	Holyhead	1	2	cb	bbcb	bwm$_o$c	m$_o$c
	Chester (Sealand)	1	*	bccfxm	bcbfcm	cm	cm$_o$
8	Manchester	1	*	cm$_o$xbcfz	bcc cz	bmbcm$_o$	bcm$_o$cbc
10	Spurn Head	1	3	cbc	bccir	cir$_o$c	c
	Catterick	8	*	pshcm$_o$	cm$_o$bm$_o$	bm$_o$bcm	m$_o$is$_o$c
	Tynemouth	1	2	cbc	bc	bcop$_o$	bco
11	St. Abbs Head	1	2	ssc	c	c	c
	Leuchars	4	*	cxm$_o$pr$_o$	cpr$_o$c	prshx	bcxc
12	Renfrew (Abbots I.)	1	*	cm$_o$mbcm	cm$_o$bccm$_o$	cbm$_o$cm	cm$_o$pr$_o$
	Eskdalemuir	1	*	cps$_o$bc	bccm$_o$	bcm$_o$	bcm$_o$ps$_o$
	Point of Ayre	0	2	bbc	bc	bcbb	bcx
13A	Tiree	0	1	b	b	b	b
13B	Stornoway	1	0	c	cpr	cb	b
15	Dalwhinnie	8	*	c	c	*	c
	Aberdeen	1	1	cm$_o$c	cr$_o$cm$_o$	cm$_o$	cm$_o$r$_o$c
	Wick	1	1	bc	bcbc	bbc	bc
16	Lerwick	1	*	c	c	c	c
17	Blacksod Point	0	2	bc	bc	b	bc
18	Malin Head	0	2	cbcc	bc m$_o$	bc	bcc
	Aldergrove	1	*	bcbjfm$_o$	bbc,m$_o$	cpr$_o$bx	bx
19	Birr Castle	1	*	cbc	bcc	cpsc	cx
20	Valentia Obsy. †	1	2	bbc	bcb	bbx	bxbcq
	Roches Point	1	2	c	cpr$_o$c	cprc	cpr

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s$_o$, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s$_o$/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.

q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r$_o$, slight rain. rr, continuous rain.
<, less than (for cloud height). ⚑ gale.
⊕, Solar halo. Ⓘ lunar halo. ⌓ Aurora.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus :—bc/r, fair weather after rain ; —, has decreased ; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.

Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.

An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.

"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.

"9 +" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. „ wet.
2 .. „ flooded.
3 .. „ frozen hard and dry.
4 .. „ partly covered with snow or hail.
5 .. „ covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. „ covered with snow, less than 6 ins., deep but ground not frozen.
8 .. „ covered with snow, less than 6 ins., but ground frozen
9 .. „ covered with snow greater than 6 ins. deep.

NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2*

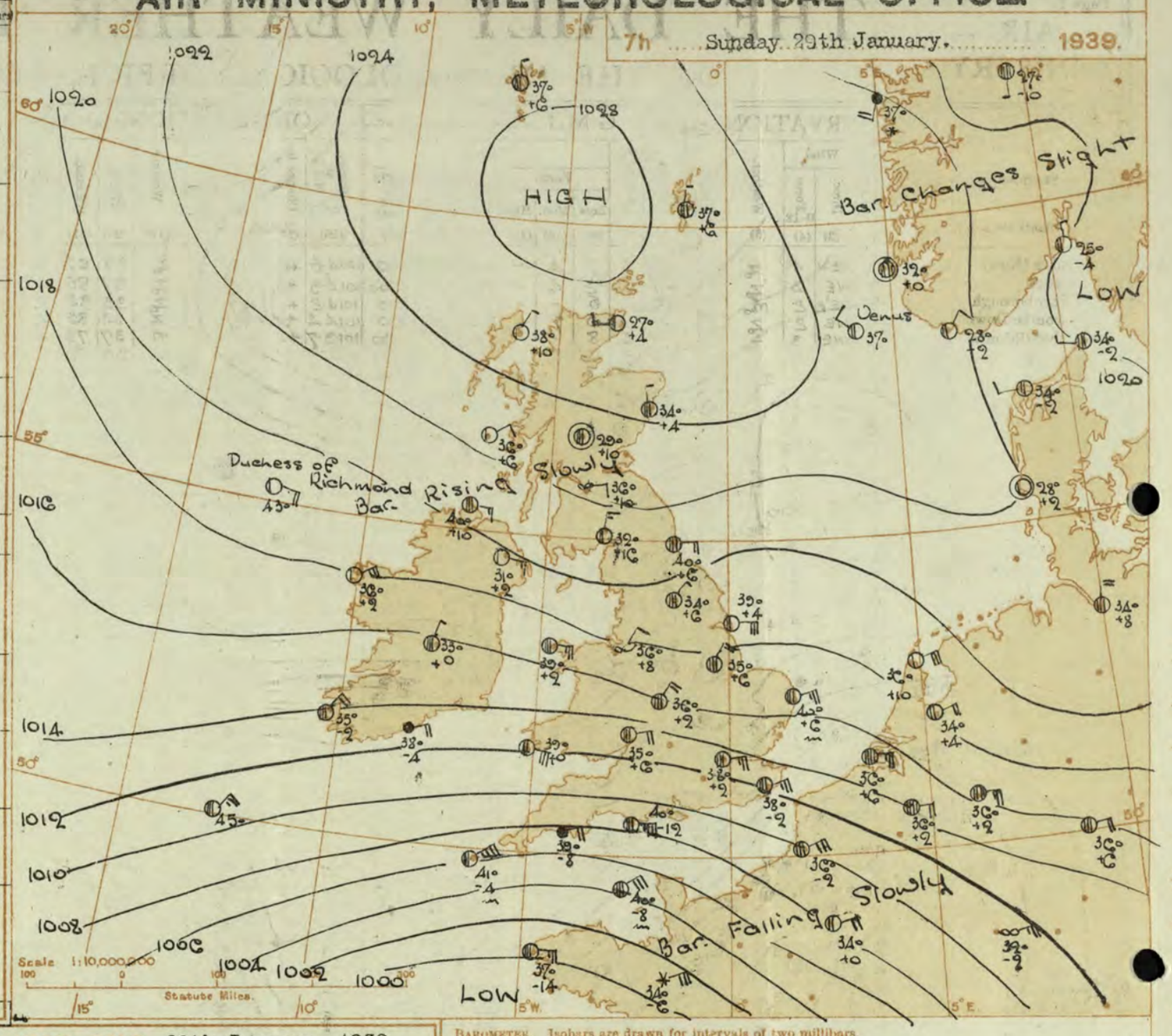
§ Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 28th January 1939.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. (°F.) Min. 9h. 27th to 9h. 28th	Temperature. (°F.) Max. 9h.—17h. 28th	Rainfall. (mm.) Night. 17h. 27th to 9h. 28th	Rainfall. (mm.) Day. 9h.—17h. 28th	Sunshine (hrs) Sunrise to Sunset. 28th
1	Tunbridge W.	cor₀o	oc	28	39	–	Trace	1·7
	Bournemouth	cbbc	c	30	41	–	–	1·2
	Ventnor ...	xczb	bobc	33	41	–	–	2·6
	Southsea ...	orsbc	bcm	32	43	Trace	–	1·9
	Bognor Regis	cb₀	bc	32	42	1	–	4·2
	Littlehampton	bc	bc	32	41	2	–	4·5
	Worthing ...	bcb	bcbbc	33	41	3	–	4·9
	Brighton ...	dcbbc	cbbc	34	41	–	0·4	3·9
	Eastbourne† ...	cbc	bcbc	33	43	0·5	–	2·1
	Hastings† ...	coc	bc	33	44	3	–	1·5
	Folkestone ..	cbcc	bcbcc	35	43	2	–	3·2
	Dover ...	bcc	cbc	36	43	2	–	3·0
	Deal	obbo	bcbbc	37	42	1	–	5·3
	Ramsgate ...	bc	bcc	36	43	1	–	4·6
	Margate ...	bcc	cbc	37	43	0·5	–	4·6
2	Southend ...	obc	bcpor	33	42	Trace	Trace	2·2
	Clacton-on-Sea	cbc	bccp₀	34	41	0·2	Trace	2·1
	Dovercourt ...	bc	bcr	34	40	–	3	2·1
	Lowestoft ...	ccpr	coir	36	40	–	1	0·2
	Skegness ...	ocbbr	bbcor	33	41	3	0·5	2·5
	Mablethorpe...	bcco	ors	33	41	–	1	0·0
	Cleethorpes ...	bc	bcrc	37	42	Trace	Trace	5·1
3	Leamington S.	c	bcp	34	40	–	Trace	2·0
4	Cheltenham†	c	cbc	33	39	0·3	–	3·1
5	Bath	cp₀	cb	32	40	–	Trace	1·7
	Weymouth ...	xb	cb	32	42	–	–	2·3
	Jersey ...	pcbc	c	38	43	0·4	–	1·2
	Torquay ...	wcbc	cocz₀	34	41	–	–	1·3
	Falmouth	b	bcogr	33	40	–	Trace	4·7
	Penzance ...	b	bbcc	33	42	–	–	6·3
	St. Ives ...							
	Bude... ...	bcc	cbc	31	41	–	–	1·7
	Ilfracombe ...	cou	pc	37	40	–	–	0·0
6	Aberystwyth	zbcc	bcc	34	41	–	–	3·0
7	Llandudno ...	cbcm₀	mc	34	40	–	–	0·6
	Colwyn Bay...	xcbcc	bcc	31	39	–	–	0·3
	Rhyl	xcm₀	cbcm₀	30	39	–	–	0·1
8	Wallasey ...	fcbc	bc	32	39	–	–	1·3
	Southport ...	xbcmb	bbz	30	42	0·2	–	5·7
	Blackpool ...	cm₀b	bcb	32	44	–	–	4·6
	Morecambe ...	bcb	bcc	33	40	–	–	4·1
9	Ilkley... ...	ccbc	bcpts	33	37	1	1	1·7
	Harrogate ...	prs₀	prs	32	36	1	1	0·6
10	Berwick-on-T.	ch₀	cd₀bc	33	40	4	0·6	1·7
11	Dunbar ...	cpr	cpr	34	39	3	3	0·0
12	Troon... ...	xmobcbcbcc		34	41	–	1	4·2
	Douglas ...	bcx	b	34	41	–	–	6·5

† Max. Tem. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 29th January, 1939.

Districts.	Forecasts
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Wind east to northeast fresh and squally, reaching gale locally near coasts. Mainly cloudy with slight drizzle or sleet locally. Few bright intervals in afternoon. Cold.
5 S.W. England 6 South Wales ...	Wind east strong to gale. Cloudy; occasional rain or showers, sleet or snow locally. Rather cold.
7 North Wales ... 8 N.W. England	Wind northeast to east, fresh, strong locally. Fair. Rather cold, slight frost at night.
9 N. Midlands ... 10 N.E. England	As 1 - 4.
11 S.E. Scotland	Wind northeast to east, moderate; mainly fair, but slight local wintry showers. Cold with frost at night.
12 S.W. Scotland & Isle of Man. 13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Wind variable or northeast, light to moderate. Scattered wintry showers in the east, considerable bright periods elsewhere. Rather cold with frost at night.
17 N. W. Ireland 18 N. E. Ireland	As 11.
19 S. E. Ireland 20 S. W. Ireland	As 5 - 6.

GENERAL INFERENCE.

Pressure is high to the north and low to the south of the British Isles. Winds will be light and variable in Northern Scotland and between Northeast and East elsewhere, reaching gale force at times in Southern Districts. It will be mainly cloudy in the East with some wintry showers, but fairer in the extreme West with only scattered showers.

FURTHER OUTLOOK.

Continuing rather cold.

Times of Issue of Gale Warnings.

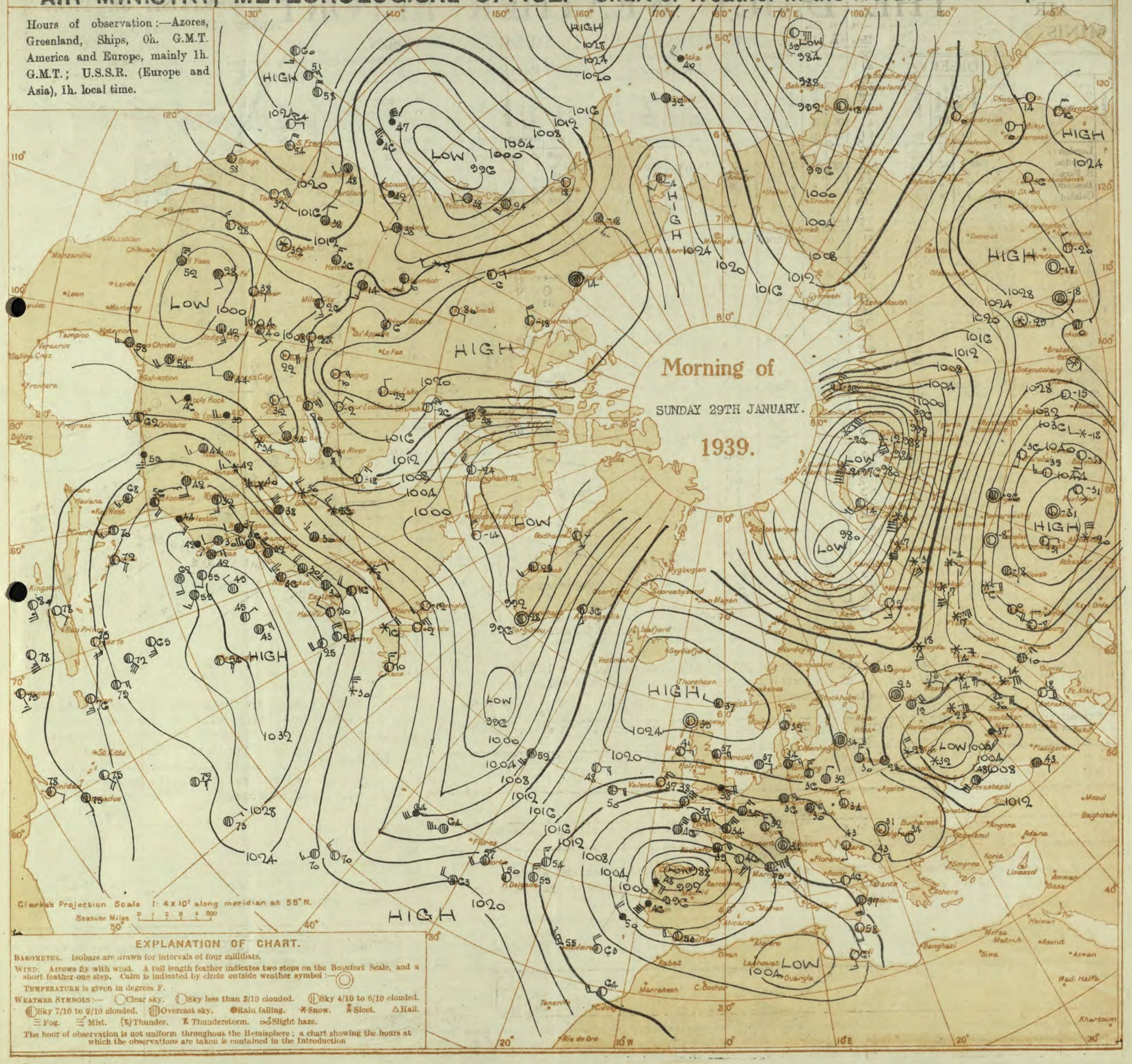
North Cone hoisted at 0445 on 29/1/39 in districts 1, 5 and 6 and at 0810 on 29/1/39 in districts 2 and 19.

Forecasts issued at 1030 G. M.T.

N. K. JOHNSON, M.Sc., A.R.C.S
Director.

H.M. Stationery Office Press, Kingsway, W.C.2.

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 29th January, 1939.

No. 28192

OBSERVATIONS at 1 hr. G.M.T. 29th January

District	Stations	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0–12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility. 0–9 (8)	Cloud. Form. Low (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0–10 (12)	Cloud. Amount. Total 0–10 (13)	Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1015·1	+2	E	4	id.	38	85	6	5	-	-	10	10	1500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1015·9	+6	E	5	c	37	85	6	5	-	-	10	10	1500
	Manston ...	154	1016·0	+6	ENE	4	c	39	75	6	5	-	-	10	10	1500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1018·8	+8	ENE	4	c	39	85	7	5	-	-	10	10	2500
	Mildenhall ...	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1011·6	-8	NE	6	bc	37	85	8	8	-	-	4-6	4-6	1500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1011·2	-6	ENE	4	c	37	92	7	5	-	-	10	10	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1009·0	-10	ENE	7	c	40	92	7	8	2	-	7-8	10	2500
	Scilly (St. Mary's)	163	1008·8	-6	NE'E	6	c	38	85	7	5	3	-	4-6	9	1500
	Guernsey ..	175	1008·3	-6	NE'E	5	c	40	75	6	8	-	-	10	10	2500
6	Pembroke ...	142	1014·5	-2	E'N	4	bc	36	85	7	5	-	-	2-3	2-3	2500
7	Holyhead ...	26	1018·9	0	E'N	4	c	38	85	6	5	-	-	10	10	4000
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1019·9	+4	E'S	5	c	40	66	7	5	2	-	7-8	9+	2500
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1022·5	+6	E	3	c/pr	37	85	8	-	2	-	10	10	1500
11	St Abbs Head ..	280	1023·7	+4	E	3	c	40	75	8	8	6	-	4-6	9+	1500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotsl.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1021·6	+4	E'N	4	b	38	92	8	9	-	-	Tr	Tr	2500
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1024·5	+8	-	0	b	39	85	7	5	-	-	1	1	4000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1025·1	+8	W	2	bc	30	97	8	5	7	-	2-3	4-6	1500
16	Lerwick ...	156	1025·6	+10	WNW	1	c	37	85	8	8	7	-	4-6	9+	1500
17	Blacksod Point	18	1020·3	0	NE	3	b	37	92	8	-	-	-	0	0	-
18	Malin Head ...	84	1021·6	+10	E	1	bc	41	85	7	2	6	-	4-6	4-6	5700
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1015·9	-6	NE	5	b	37	97	8	-	-	-	0	0	-
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 29th January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0–12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud. Form. Low. (23)	Cloud. Form. Med. (24)	Cloud. Form. High (25)	Cloud. Amount. Low 0–10 (26)	Cloud. Amount. Total 0–10 (27)	Height of Base (feet) (28)	State of Ground. 0–9 (29)	Sea. 0–9 (30)
London (Kew)	1015·0	0	ENE	4	z	40	75	6	5	2	-	7-8	10	1500	1	*
Croydon ...	1014·9	+2	E'N	5	c	38	85	7	5	-	-	10	10	2500	1	*
S. Farnborough	1014·2	-2	E'N	4	c	39	75	6	5	-	-	10	10	2500	2	*
Boscombe Down	1013·4	-2	NE'E	4	c	35	92	7	5	-	-	10	10	1500	4	*
Calshot (Sthmtn.)	1013·2	-2	ENE	5	z	40	75	6	5	-	-	10	10	2500	1	3
Lympne ...	1015·4	-2	E'N	5	c	38	65	6	5	-	-	10	10	1500	1	§3
Manston ...	1015·8	+2	E	5	c	39	65	7	5	-	-	10	10	2500	1	*
Shoeburyness ...	1016·2	+6	E'N	5	c	41	75	8	5	-	-	10	10	4000	1	*
Felixstowe ...	1017·7	+8	E'N	5	c	41	75	7	5	-	-	10	10	1500	1	3
Gorleston ...	1019·1	+6	E'N	5	c	40	85	6	5	-	-	10	10	2500	1	4
Mildenhall ...	1018·1	+6	ENE	5	c	39	85	7	5	2	-	7-8	10	2500	1	*
Cranwell ...	1019·7	+6	NE	4	c	35	85	8	5	-	-	10	10	2500	1	*
Birmingham ...	1017·8	+2	NE	4	c	36	85	6	6	-	-	10	10	1500	4	*
Upper Heyford	1016·3	0	NE	5	c	36	85	6	5	-	-	10	10	1500	4	*
Ross-on-Wye	1015·6	-4	ENE	4	c	37	85	6	5	-	-	10	10	1500	1	*
Hartland Point	1010·0	-14	ENE	7	c	39	75	8	6	2	-	4-6	10	1500	1	4
Bristol ...	1013·9	-2	ENE	5	6	37	85	6	5	-	-	10	10	800	4	*
Portland Bill ...	1008·6	-12	E	7	c	40	55	7	5	-	-	10	10	2500	1	5
Plymouth ...	1009·5	-8	ENE	4	id.	39	75	6	5	-	-	10	10	4000	1	1
The Lizard ...	1007·2	-8	ENE	6	pr	40	97	6	5	-	-	10	10	1500	1	3
Scilly (St. Mary's)	1006·9	-4	NE'E	7	c	41	92	6	5	-	-	10	10	1500	1	4
Guernsey ..	1006·4	-8	NE'E	6	cq	40	75	6	8	3	-	7-8	10	1500	1	5
Pembroke ...	1014·1	0	E'S	6	c	39	85	7	8	2	-	7-8	9+	1500	1	3
Holyhead ...	1018·8	+2	E	5	c	39	85	7	1	7	8	1	9	2500	1	3
Chester (Sealand)	1020·0	+8	NE	2	z	36	85	6	5	-	-	9+	9+	4000	1	*
Manchester ...	1020·2	+6	ENE	4	bc	37	65	7	5	3	-	4-6	4-6	2500	1	*
Spurn Head ...	1020·1	+4	E	6	bc	39	75	7	5	4	-	4-6	4-6	2500	0	3
Catterick ...	1023·2	+6	NE'E	1	c	34	97	7	5	-	-	7-8	7-8	1500	8	*
Tynemouth ...	1022·5	+6	E	4	o	40	75	8	5	-	-	10	10	1500	1	2
St Abbs Head ..	1024·6	+10	SE	4	c	39	75	8	8	2	-	7-8	10	2500	1	3
Leuchars ...	1025·3	+8	NNE	2	c	36	92	9	9	3	-	4-6	9	1500	4	*
Renfrew (Abbotsl.)	1025·0	+10	E'N	2	z	36	92	6	5	-	-	10	10	1500	1	*
Eskdalemuir ...	1024·3	+16	NNE	3	bc	32	92	6	5	-	-	4-6	4-6	800	4	*
Point of Ayre...	1021·8	0	E	4	bc	38	75	8	-	4	-	0	2-3	—	5	2
Tiree	1024·2	+6	NE'E	2	b	36	97	9	-	4	-	0	Tr	—	3	1
Stornoway ...	1026·4	+10	NE	1	b	38	85	8	5	-	-	1	1	4000	1	0
Dalwhinnie ...	*	+10	-	0	c	29	92	6	5	-	-	10	10	1500	8	*
Aberdeen ...	1026·1	+4	NNW	1	c	34	97	7	5	-	-	7-8	7-8	1500	1	1
Wick ...	1026·4	+4	W	3	bc	27	97	8	5	4	-	2-3	2-3	1500	3	1
Lerwick ...	1026·5	+6	NNE	1	c	37	85	8	8	7	-	4-6	9	1500	1	*
Blacksod Point	1020·7	+2	NE	5	b	36	85	8	-	-	-	0	0	—	3	3
Malin Head ...	1022·8	+10	E	3	c	40	85	7	8	-	-	7-8	7-8	4000	0	1
Aldergrove ...	1021·9	+2	ESE	3	b	31	97	8	2	-	-	1	1	2500	1	*
Birr Castle ...	1017·9	0	NNE	1	c	33	92	8	5	-	-	9	9	2500	4	*
Valentia Obsy. †	1015·8	-2	NE'E	4	c	35	75	6	5	-	-	9+	9+	1500	0	2
Roches Point	1014·4	-4	E'N	4	pr	38	92	8	3	-	-	9	9	1500	1	2

PAST 24 HOURS.

Stations	Temperature. Max. Day 7h–18h °F. (31)	Temperature. Min. Night 18h–7h °F (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h–18h mm. (34)	Rainfall. Night 18h–7h mm. (35)	Sunshine 28th Hrs. (36)
London (Kew)	40	37	34	-	0·2	3·3
Croydon ...	39	35	35	Tr	Tr	2·5
S. Farnborough	40	35	32	Tr	Tr	1·6
Boscombe Down	37	32	29	Tr	-	1·5
Calshot (Sthmtn.)	42	34	32	Tr	-	2·0
Lympne ...	41	35	31	-	-	3·4
Manston ...	42	38	35	Tr	-	4·0
Shoeburyness ...	42	39	40	1	Tr	2·4
Felixstowe ...	41	39	39	0·2	-	2·2
Gorleston ...	40	39	37	0·4	Tr	0·2
Mildenhall ...	40	36	35	0·1	Tr	1·2
Cranwell ...	44	35	34	0·2	0·2	4·3
Birmingham ...	38	35	33	Tr	-	2·0
Upper Heyford	38	35	33	0·3	0·3	*
Ross-on-Wye	39	35	32	0·1	Tr	1·5
Hartland Point	39	36	35	Tr	-	0·7
Bristol ...	38	35	30	Tr	0·2	1·1
Portland Bill ...	42	34	*	-	-	*
Plymouth ...	40	37	35	Tr	Tr	5·8
The Lizard ...	42	39	*	0·5	Tr	5·1
Scilly (St. Mary's)	41	38	*	-	0·2	6·0
Guernsey ..	43	39	38	0·4	-	1·2
Pembroke ...	39	34	*	Tr	-	0·0
Holyhead ...	41	36	31	-	-	5·1
Chester (Sealand)	39	33	30	-	-	1·1
Manchester ...	40	34	28	-	-	1·2
Spurn Head ...	43	37	*	Tr	Tr	5·1
Catterick ...	36	27	21	3	0·3	2·2
Tynemouth ...	42	36	33	-	0·4	2·2
St Abbs Head ..	40	36	4	3	Tr	*
Leuchars ...	40	33	30	Tr	2	0·5
Renfrew (Abbotsl.)	43	33	30	-	0·2	1·2
Eskdalemuir ...	39	32	30	Tr	0·2	1·9
Point of Ayre...	41	37	*	-	-	6·9
Tiree	42	32	25	-	-	7·2
Stornoway ...	41	38	*	0·3	-	0·8
Dalwhinnie ...	33	26	24	-	-	0·2
Aberdeen ...	40	33	31	Tr	0·3	0·6
Wick ...	40	27	*	-	-	*
Lerwick ...	40	36	*	-	-	0·4
Blacksod Point	45	32	*	-	-	*
Malin Head ...	43	38	*	Tr	-	0·3
Aldergrove ...	42	29	20	-	Tr	6·6
Birr Castle ...	41	28	17	-	0·1	4·1
Valentia Obsy. †	42	35	30	-	Tr	4·6
Roches Point	40	35	*	0·1	1	*

LONDON OBSERVATIONS

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except for rainfall which is 9h—18h.

	Height above M.S.L. in feet.	Weather Morning. (24 hrs. ended 9h.)	Weather Afternoon. (24 hrs. ended 9h.)	Weather Night. (24 hrs. ended 9h.)	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. Yesterday.	Humidity 15h G.M.T. % Yesterday.	Humidity 9h G.M.T. % To-day.	Visibility 9h.
Kew...	18	cm,cmz	bcyz,bcn	bcepm	40	37	34	-	0·2	3·3	•	•	6
Croydon	217	cfem	bcm,cm	cir,id,m	39	35	35	Tr	Tr	2·5	•	•	6
Greenwich (Royal Observatory)...	149	mcbc	bc,c	rc	40	38	33	Tr	Tr	3·4	72	72	6
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	3·9	•	•	•
Westminster (St James' Park) ...	27	•	•	•	42	38	37	Tr		3·9	74	69	•
Regents Pk. (Botanic Gardens)‡...	168	•	•	•	42	36	33	-	-	4·0	73	65	•
Camden Square	110	bc	bc	•	43	37	32	-	Tr	•	•	69	•
Kensington	80	bc	cbc	•	41	37	34	-	Tr	3·6	At 12h. 81	69	•
Hampstead Observatory	450	o	bc	o	38	35	30	-	-	4·7	•	76	•

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 29th

South Kensington. Max.	Time.	Min.	Time.
0·6	17-9h 28th	<0·3	1-4h 29th

Kew Observatory. Max.	Time.	Min.	Time.
0·4	11h 28th	<0·1	3-5h 29th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 28th January. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 29th January. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day mm.	Rainfall. Night mm.
Paris	1011·0	NE	2	z	37	1010·3	ENE	4	c	34	39	34	-	-
Brussels						1015·9	E	4	o	36		34		-
Berlin	1016·8	N	3	o	36	1022·0	NE	3	c	36	37	34	0·1	-
Zürich	1013·0	ENE	3	b	32	1014·0	E	3	c	30	39	28	-	-
Rome	1011·0	ESE	2	bc	52	1010·0	NE	2	c	45	*	*	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	<1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	> 75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

		Objects not visible at
0	Dense fog	55 yards.
1	Thick fog	220 „
2	Fog	550 „
3	Moderate fog	1,100 „
4	Mist or haze	1½ miles.
5	Poor visibility	2½ „
6	Moderate „	6½ „
7	Good „	12½ „
8	Very good „	31 „
9	Excellent „	beyond 31m.

COLUMN 30.—Code for State of Sea.

0	Calm.	5	Very rough.
1	Smooth..	6	High.
2	Slight.	7	Very high.
3	Moderate.	8	Precipitous.
4	Rough.	9	Confused.

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY, LONDON, W.C.2.

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

† ½ hr. observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

SDB ~~Monday 30th~~ January, 1939.

No. 28193

OBSERVATIONS at 13h. G.M.T. 29th January.

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Amount Low 0–10 (12)	Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1015.4	-2	NE'E	6	zo	39	65	5	5	2	–	7-8	10	1500
	Croydon	1015.3	-2	E'N	6	zo	38	75	6	5	–	–	10	10	4000
	S. Farnborough	1014.4	-6	E'N	5	c	39	65	6	5	2	–	9+	10	2500
	Boscombe Down	1013.3	-10	ENE	6	c	38	75	7	5	2	–	7-8	10	2500
	Calshot (Sthmtn.)	1013.2	-6	E'N	6	zo	40	75	6	5	–	–	10	10	1500
	Lympne	1015.2	-6	E'N	5	o	37	75	6	5	–	–	10	10	1500
	Manston	1016.0	-6	E'N	5	c	38	65	6	5	–	–	10	10	2500
2	Shoeburyness	1016.6	0	E'N	6	c	39	75	8	5	–	–	10	10	1500
	Felixstowe	1018.0	-2	E	6	c	39	65	8	5	–	–	9+	9+	2500
	Gorleston	1019.9	-2	E'N	6	c	39	55	6	5	–	–	9+	9+	2500
	Mildenhall	1018.8	-2	E'N	5	c	39	65	8	5	2	–	9+	10	2500
	Cranwell	1020.4	-2	ENE	3	c	38	75	8	5	2	–	9+	10	2500
3	Birmingham	1017.9	-2	NE	5	c	37	75	5	5	–	–	10	10	2500
	Upper Heyford	1016.4	-2	E	5	c	38	75	7	6	–	–	10	10	450
4	Ross-on-Wye	1015.8	-4	E'N	5	cq	39	75	7	5	–	–	10	10	1500
5	Hartland Point	1010.3	+2	NE	8	c	39	65	7	6	2	–	9+	10	1500
	Bristol	1014.2	-6	ENE	6	zo	38	75	6	5	2	–	7-8	10	1500
	Portland Bill	1008.9	-10	E	7	c	41	92	7	5	–	–	10	10	2500
	Plymouth	1008.4	-8	ENE	6	cq	41	75	7	5	–	–	10	10	1500
	The Lizard	1005.4	-20	E	8	c	43	85	6	8	2	–	7-8	9+	1500
	Scilly (St. Mary's)	1005.4	-14	ENE	7	iro	41	92	6	8	2	–	7-8	10	1500
	Guernsey	1006.0	-6	NE'E	6	oq	41	85	7	5	–	–	10	10	1500
6	Pembroke	1014.5	-4	ESE	8	cq	41	85	7	8	2	–	7-8	10	1500
7	Holyhead	1018.6	-6	E'N	6	c	40	75	7	8	7	–	9	9+	2500
	Chester (Sealand)	1020.4	-6	ENE	3	zo	39	75	6	5	–	–	10	10	4000
8	Manchester	1020.7	-6	ENE	4	zo	39	55	5	5	–	–	9+	9+	2500
10	Spurn Head	1021.6	+2	E	5	c	40	65	7	5	–	–	10	10	2500
	Catterick	1023.7	-4	NE'N	2	c	36	75	8	5	–	–	10	10	1500
	Tynemouth	1024.6	+2	E	4	c	40	55	8	8	–	–	9+	9+	1500
11	St. Abbs Head	1025.8	0	ESE	4	c	40	65	9	8	6	–	7-8	10	2500
	Leuchars	1026.1	0	NE	3	c	42	85	7	8	3	–	4-6	7-8	2500
12	Renfrew (Abbots I.)	1026.0	+2	ENE	2	zo	40	85	6	5	3	–	9	9+	4000
	Eskdalemuir	1024.8	-4	NE	2	c	35	75	8	5	–	–	9+	9+	1500
	Point of Ayre	1022.7	-2	E	3	c	40	75	8	5	–	–	9	9	2500
13A	Tiree	1025.4	0	ENE	3	c	41	65	8	5	3	–	4-6	7-8	4000
13B	Stornoway	1027.8	+4	E	1	b	41	75	8	–	–	3	0	tr	–
15	Dalwhinnie	1027.6	+4	NE	2	c	31	92	7	5	–	–	9+	9+	2500
	Aberdeen	1027.3	-2	N'E	1	c	40	75	7	5	–	–	9	9	2500
	Wick	1027.3	+4	WNW	3	c	36	92	8	5	7	8	4-6	7-8	1500
16	Lerwick	1028.0	+4	NNE	1	bcjp	42	75	8	5	3	–	4-6	4-6	1500
17	Blacksod Point	1020.3	-4	ESE	6	c	39	85	8	–	–	7	0	7-8	–
18	Malin Head	1023.8	0	E	4	c	41	85	8	2	6	1	4-6	7-8	4000
	Aldergrove	1022.3	-2	E'S	4	c	40	75	7	8	3	–	7-8	9+	2500
19	Birr Castle	1018.0	-6	ENE	2	c	38	75	8	5	–	–	10	10	2500
20	Valentia Obsy. †	1014.3	-14	ENE	5	c	39	75	7	5	7	–	4-6	9+	1500
	Roches Point	1014.0	-4	ENE	4	PRS	38	92	7	6	2	–	7-8	10	800

OBSERVATIONS at 18h. G.M.T. 29th January.

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Amount Low 0–10 (26)	Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1014.9	-2	ENE	6	zo	39	65	6	5	–	–	10	10	1500	1	*
Croydon	1014.8	+2	ENE	5	zo	37	75	6	5	7	–	9	10	2500	1	*
S. Farnborough	1014.4	+10	E'N	5	c	37	75	6	5	–	–	10	10	2500	1	*
Boscombe Down	1013.4	+8	ENE	5	c	36	75	6	5	–	–	10	10	1500	4	*
Calshot (Sthmtn.)	1012.9	+2	E'N	7	zo	39	75	6	5	–	–	10	10	1500	1	4
Lympne	1015.5	+6	ENE	5	o	36	75	6	5	–	–	10	10	2500	1	§5
Manston	1015.7	+6	E'N	6	c	37	75	6	5	–	–	10	10	1500	1	*
Shoeburyness	1016.2	0	E'N	7	c	39	75	8	5	–	–	10	10	1500	1	*
Felixstowe	1017.5	+2	E'N	7	c	39	75	7	5	–	–	10	10	1500	1	4
Gorleston	1019.6	+6	NE'E	6	c	38	75	7	8	–	–	10	10	2500	1	4
Mildenhall	1018.5	+6	ENE	5	c	37	65	8	5	–	–	10	10	2500	1	*
Cranwell	1020.4	+4	ENE	4	c	35	75	7	5	–	–	10	10	2500	1	*
Birmingham	1018.1	+2	ENE	5	c	34	65	6	5	–	–	9+	9+	1500	4	*
Upper Heyford	1016.8	+8	ENE	4	c	35	75	7	5	–	–	9+	9+	1500	4	*
Ross-on-Wye	1015.8	+6	ENE	5	cq	36	65	7	5	–	–	10	10	2500	1	*
Hartland Point	1009.2	-4	ENE	9	c	38	65	7	6	2	–	7-8	10	1500	1	4
Bristol	1014.5	+4	E'N	6	zo	36	75	6	5	2	–	7-8	10	1500	4	*
Portland Bill	1008.9	-6	E	7	c	40	92	7	5	–	–	10	10	2500	1	5
Plymouth	1009.0	+8	E'N	7	cq	40	65	6	5	–	–	10	10	1500	1	2
The Lizard	1005.7	+4	E'N	8	c	42	92	6	8	2	–	7-8	10	1500	1	4
Scilly (St. Mary's)	1005.6	+8	E	7	c/r	43	97	6	6	2	–	7-8	10	1500	1	4
Guernsey	1006-	+6	ENE	6	ir	41	85	6	5	–	–	10	10	1500	1	5
Pembroke	1012.9	0	E'S	6	cq	39	75	7	8	–	–	9+	9+	1500	1	3
Holyhead	1018.6	+6	E	5	c	39	65	7	7	–	–	10	10	2500	1	4
Chester (Sealand)	1020.1	+6	ENE	4	c	38	65	7	5	–	–	10	10	4000	1	*
Manchester	1020.1	+4	ENE	4	zo	38	65	6	5	3	–	7-8	9+	2500	1	*
Spurn Head	1021.2	+2	E	6	cq	39	75	8	5	–	–	10	10	2500	0	4
Catterick	1024.0	+12	NE'E	3	c	36	75	8	5	–	–	10	10	2500	4	*
Tynemouth	1024.5	+4	E	4	c	40	55	8	9	–	–	9+	9+	1500	1	3
St. Abbs Head	1025.6	+2	ESE	3	c	39	75	9	8	2	–	7-8	10	2500	1	3
Leuchars	1026.3	+8	NE	2	pr	38	85	7	8	7	–	7-8	10	1500	4	*
Renfrew (Abbots I.)	1025.7	+6	ENE	3	zo	39	85	6	5	–	–	10	10	4000	1	*
Eskdalemuir	1024.5	+2	NE	2	c	34	85	7	5	–	–	7-8	7-8	2500	1	*
Point of Ayre	1022.1	+2	ESE	4	bc	39	65	8	4	3	–	2-3	2-3	2500	0	3
Tiree	1025.1	0	NE'E	3	c	40	75	8	5	–	–	7-8	7-8	4000	0	2
Stornoway	1028.4	+2	NE	1	b	36	85	8	5	–	–	tr	tr	4000	1	1
Dalwhinnie	1028.2	+6	NE	3	c	29	92	7	5	–	–	10	10	2500	7	*
Aberdeen	1028.0	+10	N	1	c	37	85	6	5	–	–	9	9	2500	1	1
Wick	1028.2	+8	N	2	bc	39	75	8	5	7	1	2-3	4-6	1500	1	1
Lerwick	1028.6	+8	NNW	1	c	39	85	8	5	7	–	4-6	9+	800	1	*
Blacksod Point	1020.3	0	ESE	6	c	40	85	8	–	7	–	0	9	–	0	4
Malin Head	1023.7	-2	E	5	c	41	65	8	5	–	–	9	9	5700	0	2
Aldergrove	1021.8	+2	ESE	5	c	38	65	7	5	–	–	9	9	2500	1	*
Birr Castle	1017.3	-2	NE	1	c	35	75	8	5	–	–	10	10	2500	1	*
Valentia Obsy. †	1014.4	+6	NE'E	4	c	39	75	7	5	2	–	9	10	1500	0	2
Roches Point	1013.9	+6	E	4	c	41	75	7	6	2	–	7-8	9+	1500	1	3

PAST 24 HOURS. — Weather.

Stations	7h.—13h. 29th (37)	13h.—18h. 29th (38)	18h. 29th to 1h. 30th (39)	1h.—7h. 30th (40)
London (Kew)	czo	czo	czo	czo
Croydon	czo	czo	czoc	cmo
S. Farnborough	cmo	cmo	cmo	ciso
Boscombe Down	c	c	c	c
Calshot (Sthmtn.)	ccmo	cmo	cmoc	c
Lympne	ozo	ozo	c	cczo
Manston	cczo	czo	czo	czo
Shoeburyness	c	c	c	c
Felixstowe	c	c	c	c
Gorleston	cy	cyq	cq	cq
Mildenhall	cidoc	cy	cyc	c
Cranwell	c	c	c	c
Birmingham	c	c	c	c
Upper Heyford	cqidocq	cq	c	c
Ross-on-Wye	docqqc	cq	cq	cq
Hartland Point	c (gale)	cq (gale)	cq (gale)	c (gale)
Bristol	crocmo	cmoq	cmoq	cmoq
Portland Bill	c	c	oro	orrc
Plymouth	odoczoq	cqzo	cqciromo	ciromocq
The Lizard	cq (gale)	cproq (gale)	cproq (gale)	cq
Scilly (St. Mary's)	ciro	ciro	ciroc (gale)	ciroc
Guernsey	cqo	oqrr	orrir	c
Pembroke	cq (gale)	cq (gale)	cq	ciroq
Holyhead	c	c	moc	c, bc (gale)
Chester (Sealand)	cmozo	czo	c	c
Manchester	bcczobcz	czo	czo bcc	cbcc
Spurn Head	c	cq	cq	cbc
Catterick	c	c	c	c
Tynemouth	oprhoc	c	cpoo	ocpo
St. Abbs Head	c	c	cy	iroc
Leuchars	cmobcc	cpro	cprocx	cprobcx
Renfrew (Abbots I.)	mobcczo	czo	cmo	cmo iro
Eskdalemuir	bcc	c	c	cmoo
Point of Ayre	bcc	cbc	bcc	cbc
Tiree	bbc	c	cbc	bc
Stornoway	b	b	bbcb	bbc
Dalwhinnie	csh	c	*	cbc
Aberdeen	cphc	cczo	czo	czorobc
Wick	bcc	bccbc	cproc	proc
Lerwick	bc	bcc	cpro	cpro
Blacksod Point	bcq	bcq	bc	bcq
Malin Head	cbcc	cbcyc	c	c
Aldergrove	bxcbcmod	c	c	cbc
Birr Castle	c	c	c	c
Valentia Obsy. †	c	c	c	c
Roches Point	cPRS	cprsc	cprsoc	cprso

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s_o, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s_o/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
⊕, Solar halo. Ⓘ lunar halo. Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27.

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:— Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As: Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

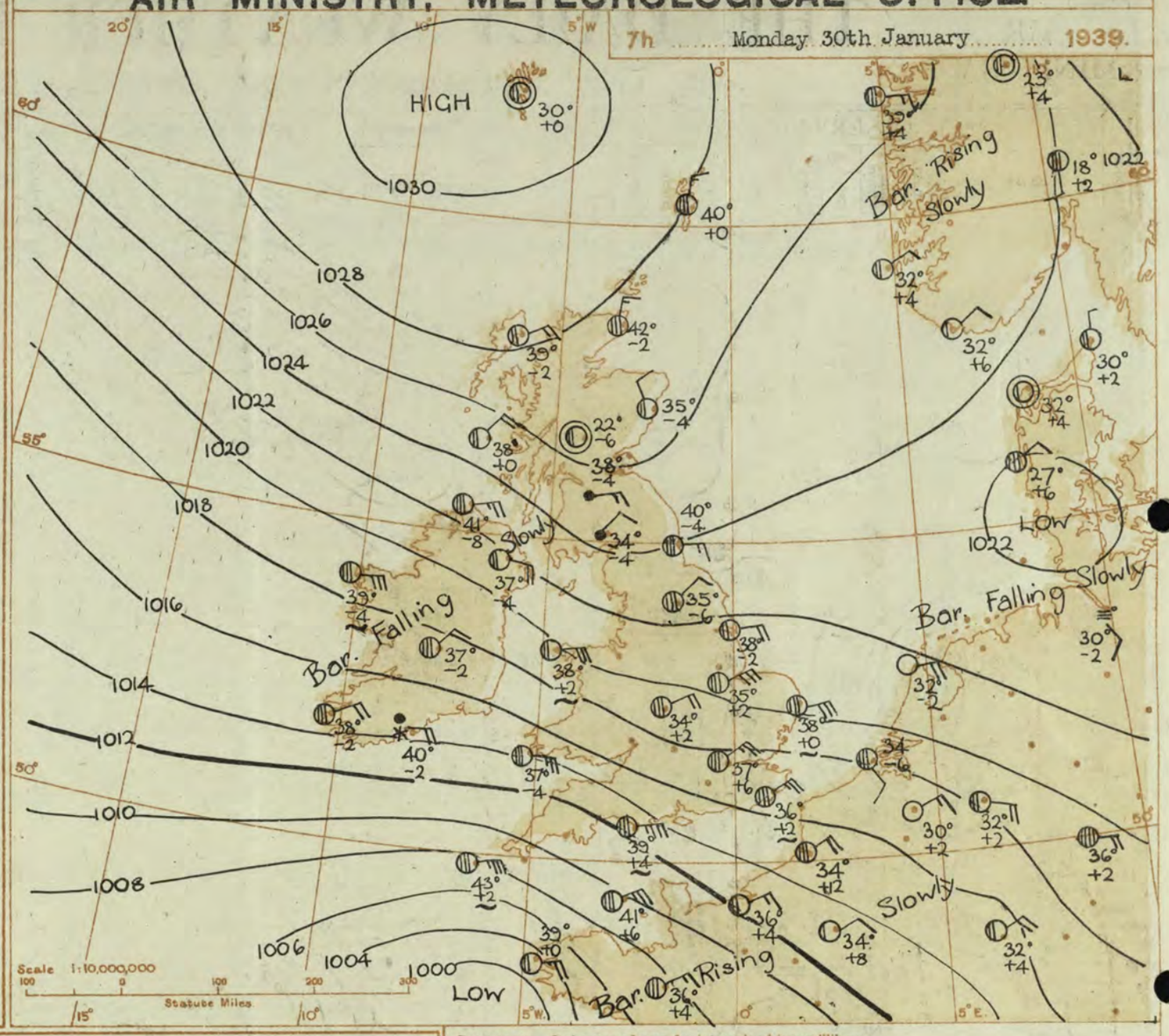
0 .. Ground dry.
1 .. „ wet.
2 .. „ flooded.
3 .. „ frozen hard and dry.
4 .. „ partly covered with snow or hail.
5 .. „ covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. „ covered with snow, less than 6 ins., deep but ground not frozen.
8 .. „ covered with snow, less than 6 ins., but ground frozen
9 .. „ covered with snow greater than 6 ins. deep.

NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary on application to the Meteorological Office, London, W.C.2.*

† Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

7h ..... Monday 30th January ..... 1939.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

REPORTS from HEALTH RESORTS for 29th January, 1939

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature (°F.) Min. 9h. 28th to 9h. 29th	Temperature (°F.) Max. 9h.—17h. 29th	Rainfall (mm.) Night. 17h. 28th to 9h. 29th	Rainfall (mm.) Day. 9h.—17h. 29th	Sunshine (hrs) Sunrise to Sunset. 29th
1	Tunbridge W.	o	o	34	38	—	—	0.0
	Bournemouth	o	o	33	40	—	—	0.0
	Ventnor ...	o	o	37	40	—	—	0.0
	Southsea ...	o	o	35	40	—	—	0.0
	Bognor Regis	o	o	35	40	—	—	0.0
	Littlehampton	c	c	35	40	—	—	0.0
	Worthing ...	c	o	36	40	—	—	0.0
	Brighton ...	oc	co	36	40	—	—	0.0
	Eastbourne† ...	o	o	40	41	—	—	0.0
	Hastings† ...	o	o	36	41	—	—	0.0
	Folkestone ...	o	o	38	40	—	—	0.0
	Dover ...	o	o	39	41	—	—	0.0
	Deal	o	o	39	40	—	—	0.0
	Ramsgate ...	o	o	39	40	—	—	0.0
	Margate ...	c	c	38	40	—	—	0.0
2	Southend ...	o	o	37	40	Trace	—	0.0
	Clacton-on-Sea	c	c	36	41	—	—	0.0
	Dovercourt ...	roc	oc	37	40	Trace	—	0.0
	Lowestoft ...	c	c	36	39	0.1	—	0.2
	Skegness ...	ocbc	bcco	36	40	Trace	—	1.5
	Mablethorpe...	o	o	35	40	2	—	0.0
	Cleethorpes ...	c	c	37	40	Trace	—	0.0
3	Leamington S.	o	o	34	39	—	—	0.0
4	Cheltenham†	o	oco	35	39	—	—	0.0
5	Bath	c	c	35	39	0.3	—	0.0
	Weymouth ...	c	c	34	41	—	—	0.0
	Jersey ...	ocr	crc	38	40	—	2	0.0
	Torquay ...	oq	oq	37	42	—	—	0.0
	Falmouth	o	o	34	42	Trace	—	0.0
	Penzance ...	c	c	36	42	Trace	—	0.0
	St. Ives ...							
	Bude... ...	c	c	35	40	—	—	0.0
	Ilfracombe ...	oco	oco	36	41	—	—	0.0
6	Aberystwyth	c	c	36	40	—	—	0.0
7	Llandudno ...	c	c	35	40	—	—	0.0
	Colwyn Bay...	co	o	33	39	—	—	0.0
	Rhyl	cm	cm	33	40	Trace	—	0.0
8	Wallasey ...	c	c	32	39	Trace	—	0.0
	Southport ...	ccz	ccz	32	39	Trace	—	0.0
	Blackpool ...	oc	co	31	39	—	—	0.3
	Morecambe ...	bcc	bc	32	40	—	—	1.2
9	Ilkley... ...	o	o	32	37	0.1	—	0.0
	Harrogate ...	c	c	31	36	—	—	0.0
10	Berwick-on-T.	co	o	36	41	2	—	0.0
11	Dunbar ...	cpg	cpg	37	42	2	Trace	0.0
12	Troon... ...	bcc	coco	33	40	—	—	1.8
	Douglas ...	bcx	bc	35	39	—	—	0.3

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 30th January, 1939.
1 S.E. England 2 E. England ... 3 E. Midlands ... 4 W. Midlands ...	Wind easterly, fresh; mainly cloudy or dull with local wintry showers, some bright periods; rather cold with frost locally at night.
5 S.W. England ▲ 6 South Wales ▲	Wind easterly, strong, gale locally; intermittent rain or sleet with snow on high ground; rather cold.
7 North Wales ... 8 N.W. England 9 N. Midlands ... 10 N.E. England	Wind easterly, moderate, strong locally; cloudy and bright periods, local wintry showers; rather cold with frost locally at night.
11 S.E. Scotland	As 13A - 16.
12 S.W. Scotland & Isle of Man.	As 7 - 10.
13 A. W. Scotld. B.N.W.Scotland. 14 Mid Scotland 15 N. E. Scotland 16 Orkney and Shetland	Wind between north and east, light; cloudy and bright periods, local wintry showers; rather cold with frost at night.
17 N. W. Ireland 18 N. E. Ireland	As 7 - 10.
19 S. E. Ireland ▲ 20 S. W. Ireland	As 5 - 6.

GENERAL INFERENCE.

An anticyclone persists near the Faeroes while a depression over the Bay of Biscay is filling up. Weather will continue rather cold with intermittent rain sleet or snow in the Southwest and local wintry showers with bright periods elsewhere.

FURTHER OUTLOOK.

Similar.

Time of Issue of Gale Warnings.

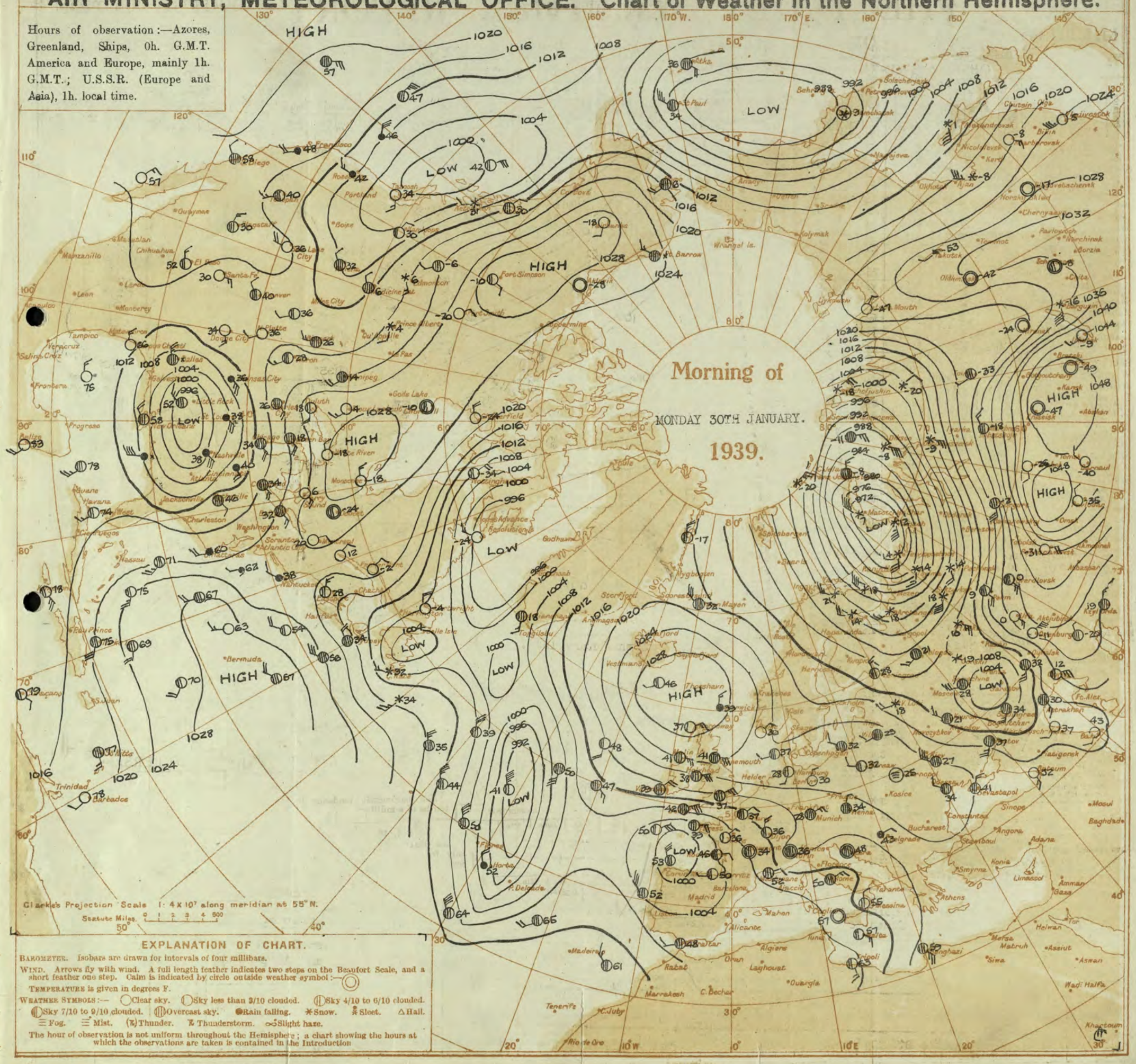
▲ North Cone hoisted at 0445 on 29/1/39 in districts 5,6 and 19(part of).

Forecasts issued at 1000 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S.
Director.

H.M. Stationery Office Press, Kingsway, W.C.2.

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 30th January, 1939.
No. 28193

OBSERVATIONS at 1 hr. G.M.T. 30th January

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1015.9	+2	ENE	5	c	37	75	7	5	-	-	10	10	2500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1016.7	-2	E'N	5	cq	35	75	7	5	7	2	2-3	7-8	2500
	Manston	154	1017.0	0	E	5	c	37	75	6	5	-	-	10	10	2500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1020.5	+4	ENE	6	c	38	75	7	8	-	-	10	10	2500
	Mildenhall	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1010.8	0	ENE	8	c	37	75	8	4	2	-	7-8	10	1500
	Bristol	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill	32	1010.4	+2	E	7	rr	40	92	7	5	-	-	10	10	1500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard	240	1007.4	+10	E	7	pr	42	97	6	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	1006.7	+2	E	7	o/r	42	97	6	5	-	-	10	10	1500
	Guernsey	175	1008.2	+6	ENE	5	c	41	85	7	8	-	-	10	10	2500
6	Pembroke	142	1015.2	0	ESE	6	cq	37	75	7	5	2	-	7-8	10	1500
7	Holyhead	26	1019.2	+2	E	6	c	38	75	8	5	-	-	9+	9+	4000
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1022.0	0	E'S	5	c	39	75	8	5	-	-	9+	9+	1500
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	108	1024.8	-2	E	6	o	41	55	8	5	-	-	10	10	1500
11	St Abbs Head	280	1026.1	0	NE	2	c	41	55	8	5	6	-	7-8	10	2500
	Leuchars	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre	30	1022.5	0	SE'E	5	c	40	76	8	4	-	-	7-8	7-8	4000
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	80	1028.4	0	ENE	3	b	37	85	8	5	-	-	1	1	4000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1028.6	0	N	2	c	36	85	8	5	7	-	4-6	7-8	1500
16	Lerwick	156	1028.9	+2	NNW	3	pr	39	85	8	8	7	-	4-6	9+	1500
17	Blacksod Point	18	1020.0	-10	ESE	6	c	39	85	8	-	7	-	0	9	-
18	Malin Head	84	1023.9	-2	E	5	c	41	75	8	8	-	-	7-8	7-8	5700
	Aldergrove	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1014.3	0	NE'N	4	c	39	97	8	8	-	-	9+	9+	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 30th January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1016.8	+4	NEE	5	z₀	38	75	6	5	2	-	7-8	10	1500	1	*
Croydon	1016.5	+6	ENE	5	z₀	37	85	6	5	-	-	10	10	1500	1	*
S. Farnborough	1016.0	+6	E'N	4	c	37	85	6	5	3	-	9	9+	1500	1	*
Boscombe Down	1015.7	+6	ENE	4	c	35	85	7	5	2	-	9	10	1500	4	*
Calshot (Sthmtn.)	1014.5	+4	ENE	5	c	38	85	7	5	7	-	7-8	9+	1500	1	3
Lympne	1016.8	+2	ENE	5	z₀	36	75	6	5	7	-	7-8	9+	2500	1	§4
Manston	1017.2	+2	E'N	5	c	37	75	7	5	-	-	9+	9+	1500	1	*
Shoeburyness	1017.2	+4	ENE	5	c	38	75	7	5	-	-	10	10	2500	1	*
Felixstowe	1019.5	+10	E	5	c	38	75	8	5	-	-	9+	9+	2500	0	3
Gorleston	1020.2	0	E'N	6	c	38	75	7	8	-	-	10	10	2500	1	4
Mildenhall	1019.6	+2	E	5	c	36	75	7	5	2	-	7-8	10	2500	0	*
Cranwell	1020.9	+2	ENE	3	c	35	75	7	5	-	-	10	10	2500	1	*
Birmingham	1019.1	+2	ENE	4	c	34	75	7	5	-	-	10	10	1500	1	*
Upper Heyford	1017.9	+4	ENE	5	c	34	75	7	5	-	-	10	10	1500	1	*
Ross-on-Wye	1017.4	+4	ENE	5	ps	35	75	7	5	-	-	10	10	1500	1	*
Hartland Point	1010.1	-6	ENE	8	c	37	75	8	6	3	-	4-6	7-8	1500	1	4
Bristol	1015.5	+4	ENE	5	z₀	35	85	6	5	-	-	10	10	1500	1	*
Portland Bill	1010.7	+4	E	7	c	39	92	7	5	-	-	10	10	1500	1	5
Plymouth	1010.5	-2	E'N	7	z₀	39	75	6	5	-	-	10	10	1500	1	2
The Lizard	1007.7	+6	E	7	c	42	97	6	5	-	-	10	10	1500	1	5
Scilly (St. Mary's)	1007.1	+2	E	7	c	43	97	6	5	-	-	10	10	1500	1	4
Guernsey	1009.1	+6	ENE	5	c	41	85	7	8	-	-	10	10	2500	1	3
Pembroke	1014.3	-4	E'S	5	cq	37	75	7	5	2	-	7-8	10	1500	1	3
Holyhead	1018.5	+2	E	6	bc	38	75	8	5	4	-	4-6	4-6	4000	1	4
Chester (Sealand)	1020.9	-2	E	3	c	37	75	7	5	-	-	9+	9+	2500	1	*
Manchester	1021.3	+4	ENE	4	c	37	65	7	5	3	-	7-8	9+	2500	0	*
Spurn Head	1021.5	-2	E	4	bc	38	75	8	-	4	-	0	4-6	-	0	3
Catterick	1023.6	-6	NE'N	2	z₀	35	85	6	5	-	-	9	9	1500	4	*
Tynemouth	1023.8	-4	E	3	c/pr	40	85	8	2	-	-	7-8	7-8	1500	1	2
St Abbs Head	1025.3	-6	NE	2	c/pr	39	85	8	4	2	-	4-6	7-8	2500	1	2
Leuchars	1025.5	-4	NNE	2	c	35	92	9	8	-	3	4-6	7-8	1500	1	*
Renfrew (Abbots I.)	1025.3	-4	E	3	ir₀	38	85	6	5	-	-	10	10	2500	1	*
Eskdalemuir	1024.2	-4	NE'N	2	pr	34	92	6	6	-	-	10	10	1500	1	*
Point of Ayre	1022.0	-2	E	4	bc	39	75	8	4	-	-	2-3	2-3	2500	0	3
Tiree	1024.9	0	NE	4	bc	38	76	8	5	4	-	2-3	4-6	4000	0	*
Stornoway	1027.9	-2	ENE	3	bc	39	75	8	5	7	-	2-3	4-6	4000	1	2
Dalwhinnie	*	-6	-	0	bc	22	92	7	4	4	1	2-3	2-3	2500	8	*
Aberdeen	1026.6	-4	NNW	2	bc	35	97	7	5	-	-	4-6	4-6	1500	1	1
Wick	1027.4	-2	NNE	3	c	42	75	8	8	7	2	7-8	9	1500	1	1
Lerwick	1028.1	0	NNE	3	c	40	75	8	8	7	-	4-6	9+	800	1	*
Blacksod Point	1019.6	-4	E	6	c	39	92	8	-	7	-	0	9	-	8	4
Malin Head	1022.6	-8	E	5	c	41	75	8	4	7	-	4-6	9	5700	0	3
Aldergrove	1021.2	-4	ESE	4	bc	37	75	7	5	-	-	4-6	4-6	2500	1	*
Birr Castle	1017.1	-2	NE	2	c	37	75	8	5	-	-	9	9	2500	1	*
Valentia Obsy. †	1014.2	-2	NE'E	4	c	38	75	7	5	-	-	10	10	1500	0	2
Roches Point	1014.3	-2	E	4	prs	40	95	8	6	2	-	4-6	10	1500	1	3

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F. (32)	Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 29th Hrs. (36)
London (Kew)	40	38*	36	—	—	0.0
Croydon	41	35	35	—	—	0.0
S. Farnborough	39	36	35	—	Tr	0.0
Boscombe Down	38	34	33	—	—	0.0
Calshot (Sthmtn.)	40	37	36	—	—	0.0
Lympne	38	35	33	—	—	0.0
Manston	40	36	34	—	—	0.0
Shoeburyness	41	37	36	—	—	0.0
Felixstowe	41	37	37	—	—	0.0
Gorleston	40	37	36	—	—	0.7
Mildenhall	40	36	35	Tr	—	0.0
Cranwell	39	35	34	—	—	0.0
Birmingham	37	33	33	—	—	0.0
Upper Heyford	38	34	33	Tr	—	*
Ross-on-Wye	39	35	34	Tr	Tr	0.0
Hartland Point	40	36	35	—	—	0.0
Bristol	38	35	33	Tr	—	0.0
Portland Bill	41	34	*	—	0.3	*
Plymouth	41	38	36	Tr	0.5	0.0
The Lizard	45	40	*	Tr	0.4	0.0
Scilly (St. Mary's)	43	40	*	0.4	2	0.0
Guernsey	42	39	37	1	3	0.0
Pembroke	41	35	*	—	0.1	0.0
Holyhead	41	38	35	—	—	1.1
Chester (Sealand)	39	37	35	—	—	0.0
Manchester	40	38	34	—	—	0.8
Spurn Head	40	38	*	—	—	0.0
Catterick	36	34	32	—	—	0.0
Tynemouth	41	39	35	1	0.3	0.0
St Abbs Head	41	37	*	0.2	0.1	*
Leuchars	42	34	30	Tr	Tr	1.8
Renfrew (Abbots I.)	40	37	35	—	Tr	0.8
Eskdalemuir	36	33	30	—	Tr	0.1
Point of Ayre	41	39	*	—	—	0.9
Tiree	42	36	34	—	—	1.1
Stornoway	42	33	*	—	—	7.6
Dalwhinnie	32	16	11	Tr	—	0.1
Aberdeen	40	33	30	0.2	Tr	2.0
Wick	41	31	*	—	0.1	*
Lerwick	44	37	*	—	Tr	6.6
Blacksod Point	44	32	*	—	—	*
Malin Head	41	38	*	—	—	1.9
Aldergrove	41	37	33	—	—	2.2
Birr Castle	38	33	33	—	—	0.0
Valentia Obsy. †	40	37	35	—	—	0.0
Roches Point	42	39	*	9	0.1	*

LONDON OBSERVATIONS

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except for rainfall which is 9h—18h.

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temperature Day Max. °F.	Temperature Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew	18	cz₀	cz₀	cz₀	40	38	36	–	–	0.0	*	*	5
Croydon	217	cz₀	cz₀c	cm₀	41	35	35	–	–	0.0	*	*	6
Greenwich (Royal Observatory)	149	c	c	cm₀	40	37	35	–	–	0.0	66	74	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Park)	27	*	*	*	39	37	36	–	–	0.0	69	76	*
Regents Pk. (Botanic Gardens)‡	168	*	*	*	40	37	36	–	–	0.0	72	72	*
Camden Square	110	c	c	*	40	37	35	–	–	*	*	77	*
Kensington	80	c	c	*	40	37	32	–	–	0.0	At 13h. 75	73	*
Hampstead Observatory	450	c	o	o	38	34	29	–	–	0.0	*	81	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 30th

South Kensington. Max.	Time.	Min.	Time.
0.3	16-18h 29th	0.3	1-4h 30th

Kew Observatory. Max.	Time.	Min.	Time.
0.7	11-21h 29th	0.1	1-4h 30th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 29th January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 30th January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris	1009.8	ENE	4	c	41	1012.7	ENE	2	b	34	43	34	–	Tr
Brussels	1015.7	ENE	4	c	36	1016.9	ENE	3	b	30	39	*	–	*
Berlin	1022.4	NE	1	b	34						39		–	
Zürich	1015.4	NE	1	bc	30	1017.0	E	1	o	28	37	27	–	–
Rome	1010.0	E	2	c	55	1008.9	NE	3	o	45	*	*	–	–

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
THE BEAUFORT SCALE OF WIND is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	<1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	> 75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

Objects not visible at
0 Dense fog 55 yards.
1 Thick fog 220 „
2 Fog 550 „
3 Moderate fog 1,100 „
4 Mist or haze 1½ miles.
5 Poor visibility 2½ „
6 Moderate „ 6¼ „
7 Good „ 12½ „
8 Very good „ 31 „
9 Excellent „ beyond 31 m.

COLUMN 30.—Code for State of Sea.
0 Calm. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 Precipitous.
4 Rough. 9 Confused.

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY, LONDON, W.C.2. N. K. JOHNSON, M.Sc., A.R.C.S., Director.

† 1 hr. observations are from Valentia W/T Station ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 31st January 1939

No 28194

OBSERVATIONS at 13h. G.M.T. 30th January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	°F. Temp. (6)	% Humid. (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Amount Low 0–10 (12)	Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	1017·5	+2	NE'E	5	z₀	39	65	5	5	-	-	9+	9+	1500
	Croydon	1017·5	+2	E'N	5	z₀	38	75	6	5	7	-	9+	10	1500
	S. Farnborough	1017·1	0	E'N	4	z₀	38	75	6	5	-	-	9+	9+	1500
	Boscombe Down	1016·1	-2	E'N	4	c	38	75	7	5	2	-	4-6	7-8	1500
	Calshot (Sthmtn.)	1015·7	+2	NE'E	5	bc	42	65	7	1	-	-	4-6	4-6	2500
	Lympne	1017·7	+2	ENE	5	c	38	75	7	8	-	2	4-6	7-8	2500
	Manston	1018·1	-2	E'N	4	c	38	75	6	5	-	5	7-8	7-8	2500
2	Shoeburyness	1018·4	0	E'N	5	c	39	75	8	5	-	-	9+	9+	2500
	Felixstowe	1019·2	0	E'N	5	c	39	65	7	5	-	-	9	9	2500
	Gorleston	1021·6	+4	ENE	5	bc	39	65	7	1	4	-	1	2-3	4000
	Mildenhall	1020·3	+4	E'S	4	c	40	65	8	5	-	-	7-8	7-8	4000
	Cranwell	1021·4	-2	E'N	4	bc	38	65	8	5	3	-	4-6	4-6	1500
3	Birmingham	1019·6	0	ENE	4	c	35	75	5	5	3	-	7-8	9+	1500
	Upper Heyford	1018·9	+2	E'N	4	c	36	76	7	5	-	-	10	10	1500
4	Ross-on-Wye	1018·3	+4	ENE	3	c	36	75	7	5	-	-	10	10	1500
5	Hartland Point	1012·3	+18	E	8	c	38	75	7	8	4	-	4-6	7-8	1500
	Bristol	1017·1	+6	ENE	4	z₀	37	75	6	5	7	-	7-8	10	1500
	Portland Bill	1012·9	+8	E	7	c	42	85	7	5	2	-	7-8	10	1500
	Plymouth	1011·9	+2	ENE	6	cq	40	85	6	5	-	-	10	10	1500
	The Lizard	1010·5	+10	E	7	c	44	92	6	8	2	-	9	10	1500
	Scilly (St. Mary's)	1009·0	+4	E'S	6	c	45	92	6	5	-	-	10	10	1500
	Guernsey	1010·8	+4	ENE	4	c	43	85	6	-	3	8	0	9	-
6	Pembroke	1015·2	+2	SE	6	cq	39	75	7	5	-	-	9+	9+	1500
7	Holyhead	1019·3	+12	E'S	5	c	38	75	8	7	4	8	4-6	9	2500
	Chester (Sealand)	1020·8	-2	E'S	4	c	41	65	7	5	7	-	4-6	7-8	2500
8	Manchester	1021·2	-2	E	4	z₀	39	65	5	7	3	-	2-3	4-6	4000
10	Spurn Head	1022·2	-4	E'S	4	c	40	75	7	5	8	-	4-6	7-8	2500
	Catterick	1023·0	-8	ENE	2	c	40	85	8	5	-	4	7-8	7-8	2500
	Tynemouth	1023·4	-4	E	3	bc	44	75	8	2	4	1	2-3	4-6	2500
11	St. Abbs Head	1024·9	-4	NE	2	c/pr	40	92	8	8	6	9	4-6	7-8	2500
	Leuchars	1025·3	-6	NE	1	c/pr	41	92	8	8	3	-	4-6	7-8	1500
12	Renfrew (Abbots I.)	1024·9	-2	ENE	3	ir₀	40	92	6	5	-	-	10	10	800
	Eskdalemuir	1023·6	-4	NE'E	4	pr	38	85	8	5	-	1	9	9	800
	Point of Ayre	1021·7	-2	E	3	bc	41	85	8	4	-	-	4-6	4-6	4000
13A	Tiree	1024·5	-4	NE	4	c	41	75	9	5	3	-	4-6	7-8	4000
13B	Stornoway	1028·2	-8	ENE	4	c	42	75	8	5	7	-	4-6	7-8	2500
15	Dalwhinnie	1026·9	-4	NE	3	c	33	92	7	4	6	-	4-6	7-8	1500
	Aberdeen	1026·2	-6	ENE	2	c	42	85	7	9	3	-	7-8	7-8	800
	Wick	1027·3	-2	ENE	4	c/r	43	75	8	5	7	8	7-8	9+	800
16	Lerwick	1028·5	+4	ENE	4	c	40	85	8	5	3	-	4-6	10	1500
17	Blacksod Point	1018·2	-6	E	6	c	42	85	8	-	7	-	0	7-8	-
18	Malin Head	1022·1	-12	E	5	c	42	75	8	8	-	4	4-6	7-8	4000
	Aldergrove	1021·3	-8	ESE	4	c	41	75	7	5	-	-	9+	9+	2500
19	Birr Castle	1017·3	-4	E	3	c	40	65	8	8	7	-	4-6	7-8	1500
20	Valentia Obsy. †	1013·7	-2	ENE	4	c	40	75	8	5	-	-	10	10	2500
	Roches Point	1014·7	-2	E	4	ir₀	40	85	7	6	2	-	7-8	10	1500

OBSERVATIONS at 18h. G.M.T. 30th January

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	°F. Temp. (20)	% Humid. (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Amount Low 0–10 (26)	Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
1	London (Kew)	1017·7	+4	NE'E	5	z₀	38	75	6	5	-	-	9+	9+	1500	1	*
	Croydon	1018·0	+8	ENE	4	z₀	37	85	5	5	-	-	9+	9+	1500	1	*
	S. Farnborough	1017·8	+8	ENE	2	z₀	37	75	6	5	-	-	7-8	7-8	1500	1	*
	Boscombe Down	1017·3	+12	E'N	3	z₀	35	85	5	5	1	-	2-3	4-6	2500	4	*
	Calshot (Sthmtn.)	1017·1	+14	ENE	4	z₀	38	75	6	-	-	-	0	0	-	1	3
	Lympne	1018·3	+6	ENE	3	z₀	36	75	5	5	-	-	9+	9+	1500	1	§3
	Manston	1018·5	+6	E'N	4	c	38	75	6	5	-	-	9+	9+	1500	1	*
2	Shoeburyness	1018·6	+4	E'N	4	c	39	75	8	5	-	-	9+	9+	1500	1	*
	Felixstowe	1019·4	+4	E'N	5	b	39	75	7	5	-	-	1	1	2500	0	3
	Gorleston	1020·8	+2	NE'E	5	b	38	75	7	-	-	-	0	0	-	1	4
	Mildenhall	1020·2	+4	NE'E	3	b	34	85	7	-	-	8	0	Tr	-	0	*
	Cranwell	1021·6	+6	NE'E	3	b	34	85	8	-	-	1	0	Tr	-	1	*
3	Birmingham	1019·6	+2	NE	4	b	35	75	6	-	-	-	0	0	-	1	*
	Upper Heyford	1019·3	+6	E'N	3	b	33	85	7	5	4	-	Tr	1	1500	1	*
4	Ross-on-Wye	1018·4	+4	ENE	3	z₀	36	75	6	5	-	-	7-8	7-8	2500	1	*
5	Hartland Point	1012·9	+12	E	7	c	38	75	6	5	4	-	7-8	9	1500	1	4
	Bristol	1017·9	+10	ENE	3	z₀	35	85	6	5	-	-	4-6	4-6	1500	1	*
	Portland Bill	1014·0	+8	ENE	6	c	41	85	7	5	2	-	7-8	10	1500	1	5
	Plymouth	1012·8	+12	E	5	cq	41	75	5	5	3	8	2-3	9+	2500	1	2
	The Lizard	1011·1	+12	E	7	c	44	97	6	8	2	-	7-8	9+	1500	1	4
	Scilly (St. Mary's)	1008·9	+4	SE'E	7	c	45	92	6	5	-	-	9+	9+	1500	1	4
	Guernsey	1012·1	+10	ENE	4	c	42	85	6	-	7	8	0	7-8	-	1	4
6	Pembroke	1015·9	+2	ESE	5	bcq	38	75	7	2	7	1	2-3	4-6	1500	1	3
7	Holyhead	1018·1	+2	E'N	4	c	39	75	7	7	4	8	2-3	7-8	2500	1	4
	Chester (Sealand)	1020·3	+4	ENE	2	z₀	35	75	6	5	-	-	2-3	2-3	4000	1	*
8	Manchester	1021·4	+10	ENE	4	z₀	37	65	6	1	-	-	Tr	Tr	4000	1	*
10	Spurn Head	1022·0	0	E'S	4	c	39	75	8	5	-	-	9+	9+	800	0	3
	Catterick	1022·9	+6	E	1	c	38	92	8	5	-	-	10	10	1500	1	*
	Tynemouth	1023·2	+4	E	4	c	41	65	8	8	-	-	7-8	7-8	2500	1	2
11	St. Abbs Head	1025·4	+4	E	3	c	41	65	8	5	6	-	4-6	9+	2500	0	3
	Leuchars	1025·0	+2	E	3	c	41	75	8	8	-	-	9+	9+	1500	1	*
12	Renfrew (Abbots I.)	1024·2	+2	ENE	3	c/r	40	92	5	5	-	-	7-8	7-8	1500	1	*
	Eskdalemuir	1023·5	+4	NE'N	3	c	35	92	8	5	-	-	9+	9+	800	1	*
	Point of Ayre	1020·7	-2	SE'E	4	bc	41	85	8	4	-	-	2-3	2-3	1500	0	3
13A	Tiree	1022·6	-2	NE'E	3	c	41	85	8	5	-	-	9	9	4000	0	2
13B	Stornoway	1026·5	0	NE	4	c	40	65	7	5	7	-	4-6	7-8	2500	1	2
15	Dalwhinnie	1026·0	0	NE	2	c	34	85	7	5	-	-	9+	9+	2500	7	*
	Aberdeen	1026·0	+4	E'S	3	c	41	75	7	5	-	-	9+	9+	1500	1	1
	Wick	1027·0	0	ESE	3	c/d	41	92	7	5	7	-	7-8	9+	800	1	1
16	Lerwick	1028·6	-2	NE	4	c	39	75	8	5	7	-	7-8	10	1500	1	*
17	Blacksod Point	1016·7	-8	ESE	6	c	40	85	8	8	-	-	7-8	7-8	2500	0	4
18	Malin Head	1021·4	-4	E	4	c	42	75	8	4	-	-	7-8	7-8	5700	0	3
	Aldergrove	1020·2	-6	E	3	c	39	85	7	5	-	-	9	9	2500	1	*
19	Birr Castle	1015·9	-6	ENE	2	c	37	75	8	8	7	-	4-6	7-8	1500	1	*
20	Valentia Obsy. †	1012·0	-10	NE'E	5	c	41	75	7	5	2	-	4-6	7-8	2500	0	2
	Roches Point	1014·2	+2	E	5	c	41	85	8	8	2	-	4-6	9+	1500	1	3

PAST 24 HOURS. WEATHER.

District	Stations	7h.–13h. 30th (37)	13h.–18h. 30th (38)	18h. 30th to 1h. 31st (39)	1h.–7h. 31st (40)
1	London (Kew)	ez₀	cz₀	cz₀	cz₀
	Croydon	cz₀	ez₀	cm₀	cm₀
	S. Farnborough	em₀	ebcem₀	cm₀	cm₀
	Boscombe Down	cis₀m₀e	ebem₀	bcm₀cm₀	cm₀
	Calshot (Sthmtn.)	bcm₀	bm₀	bm₀cm₀	cm₀
	Lympne	cze	cbcz₀	cz₀	cz₀
	Manston	cz₀	bcez₀	cbcez₀	cz₀
2	Shoeburyness	c	c	c	m₀c
	Felixstowe	c	cbcb	b,c	c
	Gorleston	ebe	bcbq	bbceq	cbceq
	Mildenhall	c	cbcbbcb	b,cbc'x	bcc
	Cranwell	cbc	bcb	b,c	c
3	Birmingham	c	cb	b	b,c
	Upper Heyford	c	cbcb	bccm₀	c
4	Ross-on-Wye	cqcc	c	c	cz₀c
5	Hartland Point	c (gale)	cz₀ (gale)	bcc	c
	Bristol	cprssh	cz₀bc	bccm₀	cm₀x
	Portland Bill	o	o	o	o
	Plymouth	cz₀omq	cbccmq	cm₀qcm₀	cm₀
	The Lizard	cq	cq	cq	cprcq
	Scilly (St. Mary's)	cz₀	c	c	c
	Guernsey	c	c	c	c
6	Pembroke	cpsq (gale)	cbcq	bcq	bcq (gale)
7	Holyhead	bcc (gale)	c	cm₀bbc	bcb
	Chester (Sealand)	c	c,bm₀	bwxm₀	bxc
8	Manchester	cbccz₀	bcz₀bz₀	bz₀bc	bccz₀
10	Spurn Head	c	c	c	c
	Catterick	cr₀bcc	cpr₀c	cir₀r₀r₀	cir₀m₀
	Tynemouth	cpbc	bcpc	c	oc
11	St. Abbs Head	pr₀c	c	c	c
	Leuchars	bccpr₀c	pr₀bcpr₀c	c	c
12	Renfrew (Abbots I.)	cmir₀	cmir₀	cm₀	cm₀
	Eskdalemuir	oprcc	cpr₀c	c	cm₀
	Point of Ayre	bc	bc	bcbb	
13A	Tiree	bcc	c	cbc	bc
13B	Stornoway	bccpr	bcc	cbc	bc
15	Dalwhinnie	c	cis₀	*	c
	Aberdeen	cprc	cbcc	c	c
	Wick	prir₀	cprid	cir₀	cir₀c
16	Lerwick	c	c	c	cpr₀
17	Blacksod Point	cq	cq	cq	cq
18	Malin Head	cbcc	cbcc	cbcbc	bcbc
	Aldergrove	bcc	c	cbbcb	bxbcc
19	Birr Castle	c	c	c	cbcx
20	Valentia Obsy. †	c	c	c	cid₀
	Roches Point	cir₀	cir₀c	cir₀c	c

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog „ less than 220 yds.
fs, low fog over sea (coast station).
fg, low fog over land (inland station).
m. mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jf, fog at a distance, but not at station.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s₀, slight storm of drifting snow (generally low).
k/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.

q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze: the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. r₀, slight rain. rr, continuous rain.
<, less than (for cloud height). gale.
⊕, Solar halo. ⦶ lunar halo. Aurora.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cb.
4 Sc formed by the spreading out of Cu.
5 Layer of St or Sc.
6 Ragged low clouds of bad weather (or fractonimbus).
7 Fair weather Cu. and Sc.
8 Large-Cu (or Cb) and Sc.
9 Large-Cu (or Cb) and ragged low clouds of bad weather.

COLUMNS 12, 13, 26, 27,

Columns 12, 26. The figures in these columns indicate the amount of cloud at the height given in Column 14.
Columns 13, 27. The figures in these columns indicate the total amount of all forms of cloud.
An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/20 of the sky.
"9 +" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical As (thin).
2 Typical As (thick) (sun or moon invisible), or Nimbostratus (Ns).
3 Single layer of Ac or high Sc.
4 Ac in isolated patches. Individually decreasing (often lenticular).
5 Ac in bands (increasing).
6 Ac formed from the spreading out of Cu.
7 Ac associated with As or As with parts resembling Ac.
8 Ac Castellatus (or Ac in ragged fragments).
9 Ac in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Cs increasing: still below 45° altitude: often in polar bands.
6 Ci or Cs increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Cs covering whole sky.
8 Cs not increasing and not covering whole sky.
9 Cc predominating, and a little cirrus.
(Cc may occur with any of the types 1 to 8).

Cloud form abbreviations:—
Cirrus,–Ci: Cirrocumulus,–Cc: Cirrostratus,–Cs: Altocumulus,–Ac: Altostratus,–As
Stratocumulus,–Sc: Stratus,–St: Nimbostratus,–Ns: Cumulus,–Cu: Cumulonimbus,–Cb

COLUMN 29.—STATE OF GROUND.

0 .. Ground dry.
1 .. „ wet.
2 .. „ flooded.
3 .. „ frozen hard and dry.
4 .. „ partly covered with snow or hail.
5 .. „ covered with ice or glazed frost.
6 .. Ground covered with thawing snow.
7 .. „ covered with snow, less than 6 ins., deep but ground not frozen.
8 .. „ covered with snow, less than 6 ins., but ground frozen
9 .. „ covered with snow greater than 6 ins. deep

NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2*

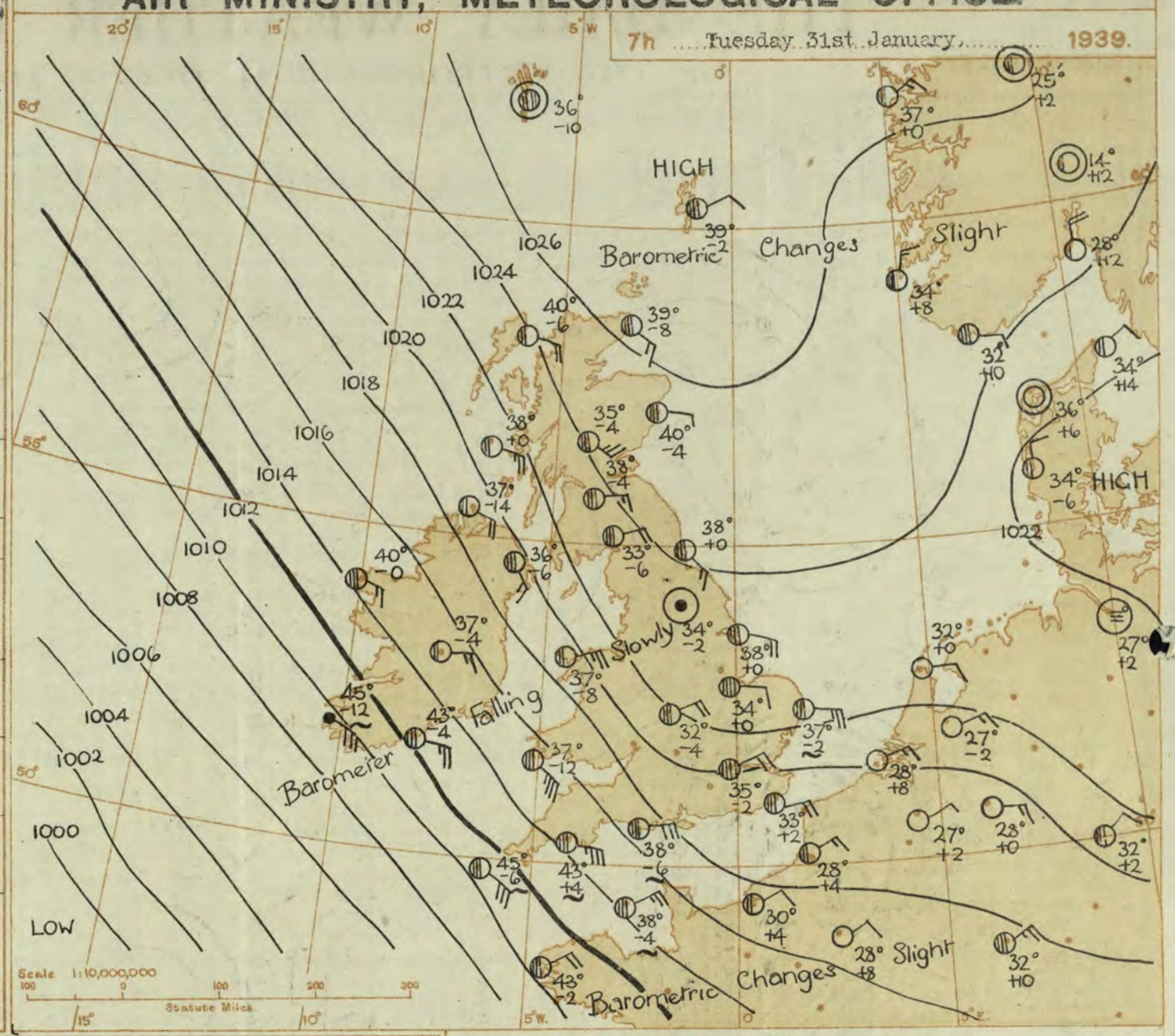
§ Sea disturbance reported from Dungeness.

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 30th January 1939.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. (°F.) Min. 9h. 29th to 9h. 30th	Temperature. (°F.) Max. 9h.—17h. 30th	Rainfall. (mm.) Night. 17h. 29th to 9h. 30th	Rainfall. (mm.) Day. 9h.—17h. 30th	Sunshine (hrs) Sunrise to Sunset. 30th
1	Tunbridge W.	o	oc	34	38	-	-	1.8
	Bournemouth	ocbc	bbc	36	42	-	-	3.1
	Ventnor ...	poc	cbc	37	41	0.5	-	2.8
	Southsea ...							
	Bognor Regis	bcb	b	36	42	0.5	-	6.8
	Littlehampton	bc	bc	37	42	-	-	6.4
	Worthing ...	cb	b	36	41	-	-	6.3
	Brighton ...	bc	bc	37	42	-	-	6.0
	Eastbourne† ...	cbc	bcc	38	40	-	-	3.3
	Hastings† ...	cbc	bcc	37	41	-	-	4.6
	Folkestone ...	cbc	bccp	37	39	-	-	2.6
	Dover ...	bccbc	bcc	38	41	-	-	1.4
	Deal	obc	bcco	37	40	-	-	1.4
	Ramsgate ...	c	bcc	36	40	-	-	1.1
	Margate ...	c	bcc	37	40	-	-	0.0
2	Southend ...	o	oc	37	40	-	-	0.2
	Clacton-on-Sea	c	cbc	36	40	-	-	0.0
	Dovercourt ...	oc	bc	37	40	-	-	1.9
	Lowestoft ...	cbcb	b	36	40	-	-	5.6
	Skegness ...	bc	bcc	36	40	-	-	3.9
	Mablethorpe...	oc	bco	37	40	-	-	3.3
	Cleethorpes ...	c	cbcc	37	40	-	-	0.1
3	Leamington S.	o	c	35	39	-	-	0.4
4	Cheltenham†	ozc	c	34	38	-	Trace	0.0
5	Bath	pzc	cbc	36	39	-	Trace	0.0
	Weymouth ...	c	cb	35	42	0.2	-	1.0
	Jersey ...	rcbc	cbc	37	44	2	-	2.5
	Torquay ...	oq	oq	38	42	-	-	0.0
	Falmouth	o	o	39	43	0.4	-	0.0
	Penzance ...	coc	cq	39	45	0.5	-	0.0
	St. Ives ...							
	Bude... ...	cbcc	cbc	36	41	-	-	3.2
	Ilfracombe ...	ocbc	cbcc	37	[illegible]	-	-	0.6
6	Aberystwyth	cbcc	bcc	36	40	-	-	2.2
7	Llandudno ...	bcc	cbcb	36	41	-	-	3.2
	Colwyn Bay...	cbc	bcb	36	40	-	-	1.6
	Rhyl	cm	cbcb	36	40	-	-	0.7
8	Wallasey ...	c	bcc	32	40	-	-	1.8
	Southport ...	czbcc	bczb	36	41	-	-	3.2
	Blackpool ...	cbc	cbcc	36	41	-	-	1.3
	Morecambe ...	pcb	bbc	36	42	-	-	3.1
9	Ilkley... ...	c	c	35	41	-	-	1.3
	Harrogate ...	c	bcc	34	39	-	-	0.8
10	Berwick-on-T.	bccp	cpbc	38	43	0.1	0.4	3.6
11	Dunbar ...	bcpp	bcpp	38	43	0.5	1	1.2
12	Troon... ...	bcc	coc	35	43	-	-	5.2
	Douglas ...	bc	bc	37	42	-	-	1.7

† Max. Temp. for period 21h. yesterday to 17h. to-day: Min. Temp. 21h.–9h.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND, WEATHER SYMBOLS. For explanation see opposite page.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	Forecasts for the 24 hours commencing 12 noon, G.M.T. 31st January, 1939.
1 S.E. England	Freshening southeast winds, strong later; cloudy and bright periods; chance of rain or sleet later; rather cold.
2 E. England ...	
3 E. Midlands ...	Freshening east or southeast winds; cloudy and bright periods; rather cold.
4 W. Midlands ...	
5 S.W. England ✝	Southeasterly winds, strong or gale; mainly cloudy, occasional rain or sleet; rather cold.
6 South Wales ... ✝	
7 North Wales ...	Fresh or strong southeast winds; cloudy and bright periods; rather cold.
8 N.W. England	
9 N. Midlands ...	As 2 - 4.
10 N.E. England	
11 S.E. Scotland	
12 S.W. Scotland & Isle of Man.	As 7 - 8.
13 A. W. Scotld. B.N.W.Scotland.	
14 Mid Scotland	As 2 - 4.
15 N. E. Scotland	
16 Orkney and Shetland	
17 N. W. Ireland ✝	As 7 - 8.
18 N. E. Ireland	
19 S. E. Ireland ✝	As 5 - 6.
20 S. W. Ireland ✝	

GENERAL INFERENCE.

An anticyclone is centred near the Azores and a complex depression southwest of Ireland will spread east. Rather cold east or southeast winds will increase, but it will be mainly dry over most of the country; rain or sleet, however, is likely to reach the Southwest and South later.

FURTHER OUTLOOK.

Little change.

Times of Issue of Gale Warnings.

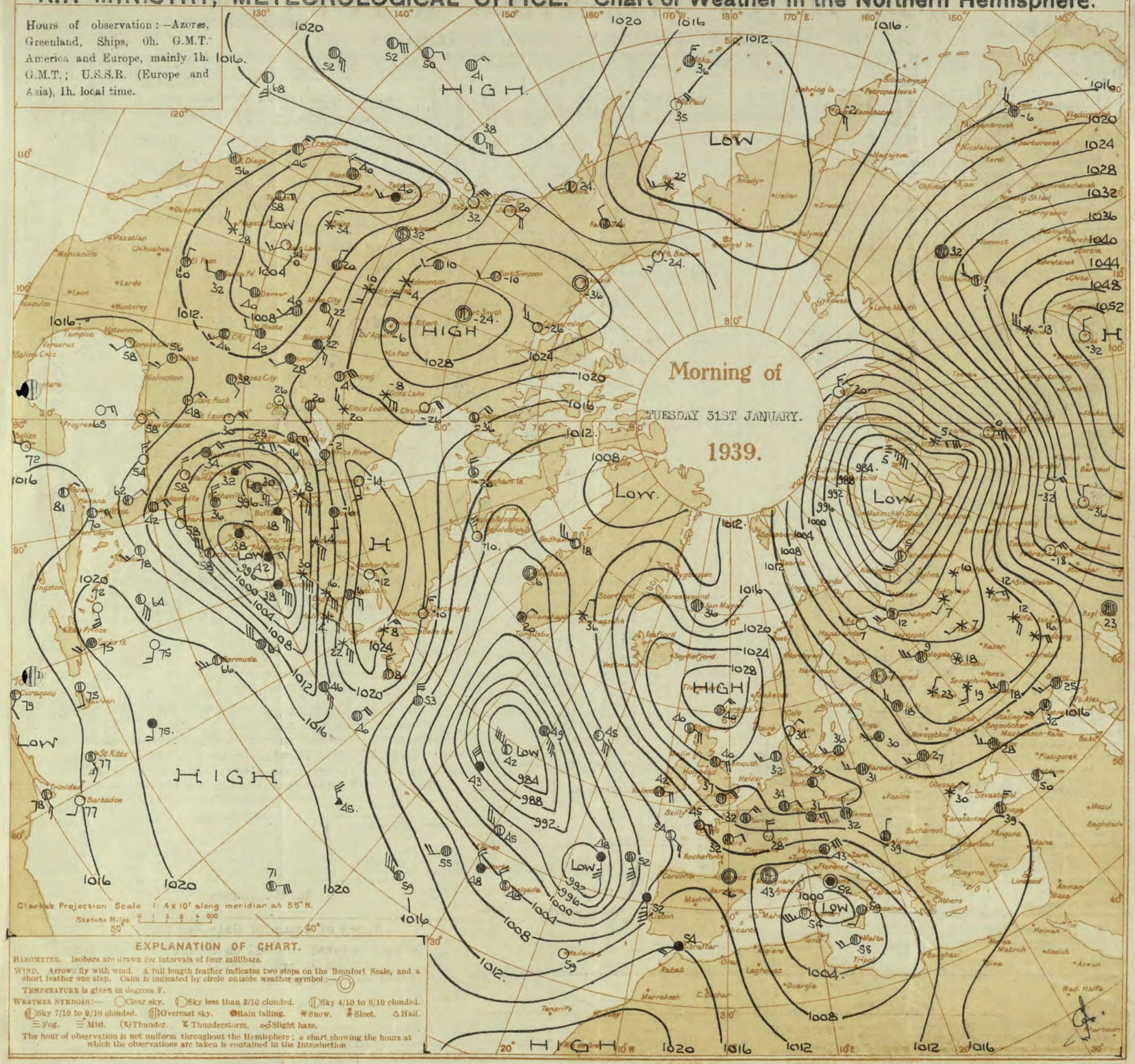
✝ South Cone hoisted at 0845 on 31/1/39 in districts 17 and 20 and at 0850 in districts 5, 6, and part of 19.

Forecasts issued at 1000 G.M.T.

N. K. JOHNSON, M.Sc., A.R.C.S
Director.

H.M. Stationery Office Press, Kingsway W.C.2.

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with wind. A full length feather indicates two steps on the Beaufort Scale, and a short feather one step. Calm is indicated by circle outside weather symbol :—

TEMPERATURE is given in degrees F.

WEATHER SYMBOLS:— Clear sky. Sky less than 3/10 clouded. Sky 4/10 to 6/10 clouded. Sky 7/10 to 9/10 clouded. Overcast sky. Rain falling. Snow. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.

The hour of observation is not uniform throughout the Hemisphere; a chart showing the hours at which the observations are taken is contained in the Introduction.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 31st January 1939

No. 28194

OBSERVATIONS at 1 hr. G.M.T. 31st January

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1019·2	+2	ENE	4	z_o	37	75	6	5	–	–	9+	9+	1500
	S. Farnborough	226	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (Sthmtn.)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1019·8	+4	E'N	4	z_o	35	75	6	5	–	–	9+	9+	1500
	Manston ...	154	1020·0	+2	E'N	4	z_o	37	75	6	5	–	–	10	10	1500
2	Shoeburyness ...	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1022·2	+6	ENE	4	c	38	75	7	8	–	–	7-8	7-8	2500
	Mildenhall ...	19	1021·9	+4	NE'N	2	c	29	92	7	5	3	–	7-8	7-8	2500
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Hartland Point	299	1013·7	+8	E	7	c	36	85	6	5	4	–	4-6	9	1500
	Bristol ...	209	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Portland Bill ...	32	1015·6	+2	E	6	0	40	92	7	5	–	–	10	10	1500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1012·2	+8	E	7	c	45	92	6	8	2	–	9	10	1500
	Scilly (St. Mary's)	163	1010·6	+2	ESE	6	c	46	92	6	5	1	–	7-8	10	1500
	Guernsey ..	175	1014·6	+8	E	3	c	42	75	6	5	3	–	4-6	9	2500
6	Pembroke ...	142	1016·9	+2	SE	7	bcq	37	75	7	5	4	–	2-3	4-6	2500
7	Holyhead ...	26	1018·6	+4	ENE	5	bc	37	75	8	–	–	6	0	4-6	–
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	Manchester ...	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1023·2	+4	E'S	3	c	39	85	8	5	–	–	9+	9+	800
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	108	1024·0	+2	E	4	c	40	75	8	8	–	–	9+	9+	1500
11	St Abbs Head ..	280	1028·2	–2	ESE	4	c	39	75	8	3	2	–	7-8	10	2500
	Leuchars ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbots I.)	19	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Point of Ayre...	30	1021·1	0	SE'S	6	b	38	85	8	–	–	–	Tr	Tr	4000
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	80	1024·7	–1·4	E	4	bc	40	75	8	5	–	–	4-6	4-6	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	79	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1027·0	–1	SE	3	ic	40	92	8	8	7	9	4-6	9	800
16	Lerwick ...	156	1028·6	–2	NE	3	c	40	75	8	5	2	–	7-8	10	1500
17	Blackrod Point	18	1015·6	–8	ESE	5	bc	40	85	8	8	–	–	4-6	4-6	2500
18	Malin Head ...	84	1020·2	–12	E'S	5	bc	40	85	8	5	–	–	4-6	4-6	4000
	Aldergrove ...	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy. †	30	1011·2	–2	E	4	0	42	92	8	5	–	–	10	10	800
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 31st January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1019·3	–2	NE'E	4	z_o	36	75	6	5	–	–	9+	9+	1500	1	*
Croydon ...	1019·1	–2	ENE	4	z_o	35	75	6	5	–	–	10	10	1500	1	*
S. Farnborough	1019·0	–4	E'N	4	z_o	36	75	6	5	–	–	9+	9+	1500	1	*
Boscombe Down	1018·2	–6	E'N	4	c	34	85	7	5	–	–	9	9	1500	4	*
Calshot (Sthmtn.)	1018·2	–2	E'N	5	z_o	37	85	6	5	–	–	10	10	1500	1	3
Lympne ...	1020·2	+2	E'N	4	cq	33	75	6	5	–	–	9+	9+	1500	1	§3
Manston ...	1020·1	0	E'N	4	c	34	75	6	5	–	–	7-8	7-8	1500	1	*
Shoeburyness ...	1020·1	–2	E'N	4	c	36	85	6	8	–	–	9	9	2500	1	*
Felixstowe ...	1021·1	0	ENE	4	c	37	75	7	8	–	–	7-8	7-8	2500	0	3
Gorleston ...	1022·2	–2	ESE	5	c	37	65	7	8	–	–	9+	9+	2500	0	4
Mildenhall ...	1021·6	0	ENE	2	c	32	85	7	5	–	–	9+	9+	1500	3	*
Cranwell ...	1022·3	0	E'S	2	c	34	85	7	5	–	–	10	10	2500	1	*
Birmingham ...	1021·1	–4	ENE	4	c	32	85	7	5	–	–	9+	9+	1500	1	*
Upper Heyford	1020·5	–2	E	3	c	33	85	7	5	–	–	10	10	1500	1	*
Ross-on-Wye	1019·6	–4	ENE	3	c	33	75	6	5	–	–	10	10	1500	1	*
Hartland Point	1013·9	+2	E	6	c	34	85	7	5	4	–	7-8	9	1500	1	4
Bristol ...	1018·2	–6	E'N	3	z_o	34	85	6	5	–	–	9+	9+	1500	1	
Portland Bill ...	1015·3	–6	E	6	c	38	85	7	5	2	–	7-8	10	1500	1	5
Plymouth ...	1014·1	–8	E	5	z_o	39	85	6	5	–	–	9+	9+	800	1	2
The Lizard ...	1011·6	+4	ESE	7	c	43	92	6	8	2	–	7-8	9+	1500	1	4
Scilly (St. Mary's)	1009·8	–6	SE'E	6	c	45	92	6	5	–	–	10	10	1500	1	4
Guernsey ..	1013·6	–4	ENE	5	c	38	85	6	8	–	–	9	9	2500	1	4
Pembroke ...	1014·2	–12	SE	7	cq	37	75	7	5	2	–	4-6	7-8	2500	1	3
Holyhead ...	1016·9	–8	E'N	5	bc	37	75	9	–	–	1	0	2-3	–	1	3
Chester (Sealand)	1021·5	–8	E'S	2	c	35	75	7	5	–	–	9+	9+	2500	3	*
Manchester ...	1021·9	0	E'N	3	z_o	35	65	6	5	–	–	9	9	2500	0	*
Spurn Head ...	1022·8	0	ESE	4	c	38	75	8	5	–	–	10	10	1500	0	3
Catterick ...	1023·8	–2	–	0	ic	34	97	6	5	–	–	9	9	800	1	*
Tynemouth ...	1024·1	0	SE	3	c	38	75	8	8	–	–	9	9	1500	1	2
St Abbs Head ..	1024·8	–6	SE	4	c	39	85	8	5	6	–	4-6	9+	2500	0	3
Leuchars ...	1024·6	+8	E	3	c	41	75	9	5	3	–	7-8	9	2500	1	*
Renfrew (Abbots I.)	1023·2	–4	E	3	z_o	38	75	6	5	–	–	9	9	1500	1	*
Eskdalemuir ...	1023·8	–6	E'N	4	c	33	85	6	5	–	–	9	9	800	1	*
Point of Ayre...																
Tiree	1020·7	0	ESE	5	bc	38	85	8	5	4	–	2-3	2-3	4000	0	*
Stornoway ...	1022·5	–6	ESE	4	bc	40	75	8	1	–	–	Tr	2-3	4000	1	2
Dalwhinnie ...	1025·1	–4	SE	5	c	35	75	7	4	4	–	4-6	7-8	2500	7	*
Aberdeen ...	1025·8	–4	E'S	1	c	40	75	7	5	–	–	9+	9+	2500	1	1
Wick ...	1026·1	–8	SE	3	c	39	92	8	5	2	–	7-8	10	1500	1	1
Lerwick ...	1027·8	–2	ENE	2	c	39	85	8	8	7	–	4-6	10	1500	1	*
Blackrod Point	1014·5	0	ESE	3	c	40	85	7	–	7	–	0	10	–	0	3
Malin Head ...	1015·3	–14	SE'E	4	bc	37	85	7	5	4	–	4-6	4-6	4000	0	2
Aldergrove ...	1015·5	–6	SE'S	3	c	36	85	7	5	–	–	7-8	7-8	2500	1	*
Birr Castle ...	1014·8	–4	E	3	bc	37	75	8	–	4	–	0	2-3	–	1	*
Valentia Obsy. †	1009·2	–12	ESE	6	id	45	85	6	5	–	–	9+	9+	1500	1	4
Roches Point	1012·8	–4	E'S	5	c	43	92	8	5	–	–	9+	9+	1500	1	3

PAST 24 HOURS.

Stations	Temperature Max. Day 7h–18h °F. (31)	Temperature Min. Night 18h–7h °F. (32)	Temperature Min. on Grass °F. (33)	Rainfall Day 7h–18h mm. (34)	Rainfall Night 18h–7h mm. (35)	Sunshine 30th Hrs. (36)
London (Kew)	39	36	34	–	–	0·0
Croydon ...	38	35	35	–	–	0·0
S. Farnborough	39	36	34	–	–	0·6
Boscombe Down	39	32	29	Tr	–	1·3
Calshot (Sthmtn.)	42	35	35	–	–	6·6
Lympne ...	38	33	31	–	–	2·7
Manston ...	39	34	31	–	–	2·0
Shoeburyness ...	40	36	34	–	–	0·0
Felixstowe ...	40	37	35	–	–	2·4
Gorleston ...	40	36	35	–	–	0·0
Mildenhall ...	40	29	24	–	–	3·6
Cranwell ...	40	33	29	–	–	3·7
Birmingham ...	37	31	28	–	–	0·0
Upper Heyford	37	33	29	–	–	*
Ross-on-Wye	37	33	32	–	–	0·0
Hartland Point	39	34	33	–	–	0·9
Bristol ...	37	34	27	Tr	–	0·0
Portland Bill ...	43	34	*	–	–	*
Plymouth ...	41	39	37	–	–	0·1
The Lizard ...	44	43	*	–	Tr	0·7
Scilly (St. Mary's)	45	45	*	–	–	0·0
Guernsey ..	44	38	36	–	–	1·5
Pembroke ...	41	35	*	Tr	–	1·0
Holyhead ...	40	36	32	–	–	0·0
Chester (Sealand)	41	25	18	–	–	2·3
Manchester ...	39	32	23	–	–	1·5
Spurn Head ...	40	38	*	–	–	0·3
Catterick ...	42	33	31	Tr	0·2	0·9
Tynemouth ...	44	38	35	1	–	3·3
St Abbs Head ..	41	38	*	1	–	*
Leuchars ...	42	38	35	1	–	1·7
Renfrew (Abbots I.)	41	36	34	0·4	–	0·0
Eskdalemuir ...	40	33	30	0·1	–	1·5
Point of Ayre...			*	–		
Tiree	42	37	35	–	–	1·0
Stornoway ...	42	39	*	Tr	–	8·4
Dalwhinnie ...	39	33	29	Tr	–	1·8
Aberdeen ...	43	40	37	0·5	–	1·5
Wick ...	43	38	*	1	1	*
Lerwick ...	42	37	*	–	Tr	0·0
Blackrod Point	43	32	*	–	–	*
Malin Head ...	43	36	*	–	–	0·[illegible]
Aldergrove ...	42	35	31	–	–	1·9
Birr Castle ...	40	34	26	–	–	0·5
Valentia Obsy. †	41	40	38	–	Tr	0·0
Roches Point	42	41	*	0·1	Tr	*

LONDON OBSERVATIONS

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except for rainfall which is 9h—18h.

	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h)	Weather Afternoon (24 hrs. ended 9h)	Weather Night (24 hrs. ended 9h)	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew ...	18	cz_o	cz_o	cz_o	39	36	34	–	–	0·0	•	•	5
Croydon ...	217	cz_o	cz_o	cm_o	38	35	35	–	–	0·0	•	•	6
Greenwich (Royal Observatory) ...	149	c	c	c	39	35	33	–	–	0·0	70	77	6
City (Bunhill Row) ...	—	•	•	•	•	•	•	•	•	0·0	•	•	•
Westminster (St. James' Park) ...	27	•	•	•	40	37	35	–		0·0	71	74	•
Regents Pk. (Botanic Gardens)‡ ...	168	•	•	•	39	36	34	–	–	0·0	64	61	•
Camden Square ...	110	c	cbc	•	39	36	33	–	–	•	•	76	•
Kensington ...	80	bc	bc	•	39	36	33	–	–	0·0	At 18h. 74	75	•
Hampstead Observatory ...	450	0	0	0	38	32	30	–	–	0·1	•	80	•

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 31st

South Kensington Max.	Time.	Min.	Time.
0·3	17-18h 30th	<0·3	1-3h 31st

Kew Observatory Max.	Time.	Min.	Time.
0·3	18-19h 30th	0·1	0-6h 31st

FOREIGN OBSERVATIONS.

18h. G.M.T. 30th January

Stations	Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.
Paris ...	1014·5	NE	4	c	37
Brussels ...	1017·4	ENE	5	b	34
Berlin ...	1023·0	N	2	c	32
Zurich ...	1015·9	NNE	1	0	30
Rome ...	1002·7	ENE	4	0	55

7h. G.M.T. 31st January

Stations	Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris ...	1017·5	ENE	2	z_o	28	41	28	–	–
Brussels ...	1015·8	ENE	1	m	27	39	25	–	–
Berlin ...	1022·2	NW	3	z_o	30	32	27	–	–
Zurich ...	1017·4	ESE	2	0	30	32	30	–	–
Rome ...	1001·6	NNE	4	0	48	*	*	–	7

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	<1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	> 75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

	Objects not visible at
0 Dense fog	55 yards.
1 Thick fog	220 ,,
2 Fog	550 ,,
3 Moderate fog	1,100 ,,
4 Mist or haze	1½ miles.
5 Poor visibility	2½ ,,
6 Moderate ,,	6½ ,,
7 Good ,,	12½ ,,
8 Very good ,,	31 ,,
9 Excellent ,,	beyond 31m.

COLUMN 30.—Code for State of Sea.

0 Calm.	5 Very rough.
1 Smooth.	6 High.
2 Slight.	7 Very high.
3 Moderate.	8 Precipitous.
4 Rough.	9 Confused.

TERMS OF SUBSCRIPTION. Single Copies, 1d. each: by post 1½d. 2/6 per month; 6/6 per quarter; 25/- per year.

METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY, LONDON, W.C.2.

N. K. JOHNSON, M.Sc., A.R.C.S., Director.

† [illegible] observations are from Valentia W/T Station. ‡ Maximum and Minimum Temperatures are for the 24 hours ending 8 h. § Sea disturbance reported from Dungeness.